

THE PHILADELPHIA REAL ESTATE RECORD AND

Builders' Guide

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ISSUED WEEKLY IN THE INTERESTS OF ARCHITECTS, STRUCTURAL ENGINEERS, CONTRACTORS
AND THE MATERIAL AND EQUIPMENT TRADES

Vol. XXIX., No. 1.

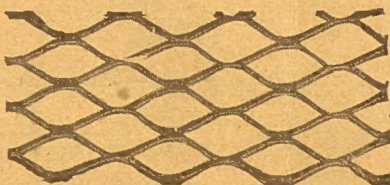
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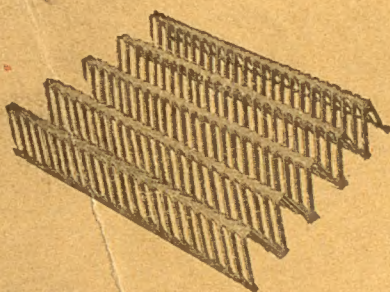
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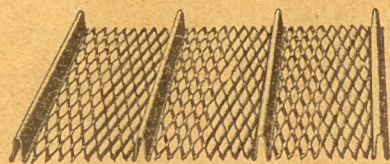


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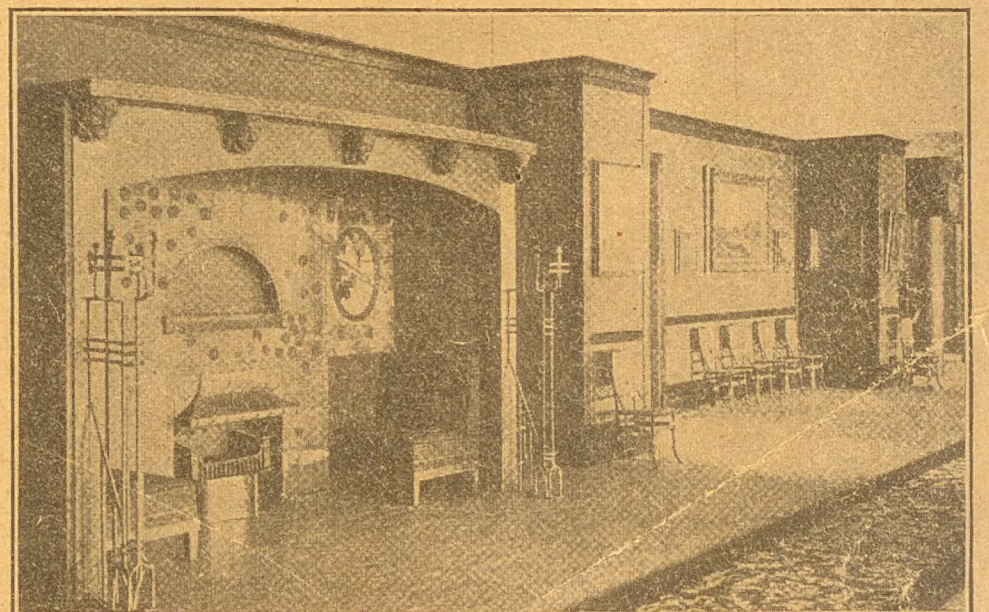
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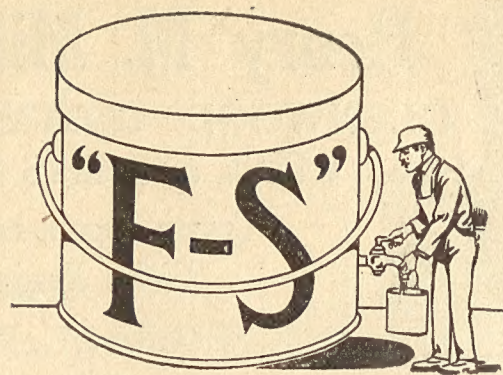
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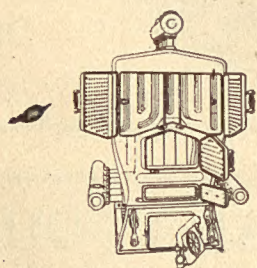
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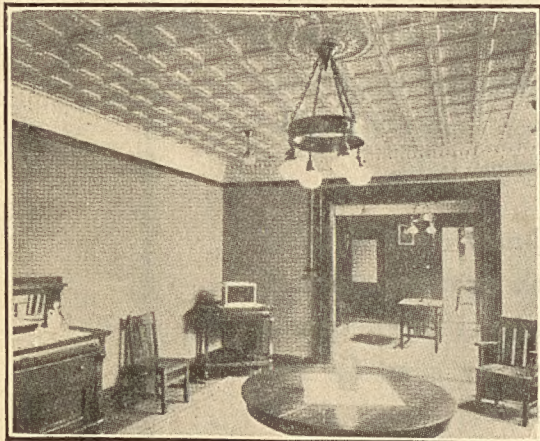
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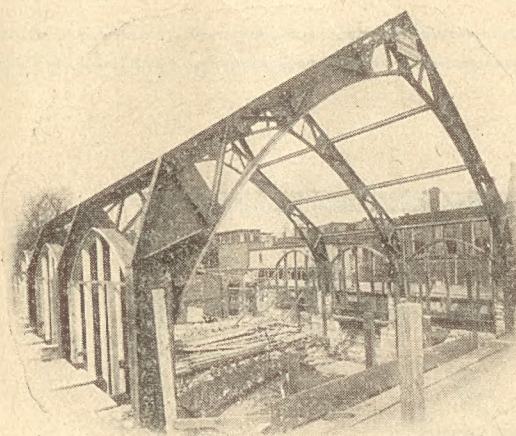
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Vol. XXIX., No. 1.

PHILADELPHIA, WEDNESDAY, JANUARY 7, 1914.

Less than One Year
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, Laundry and Boiler House, Fifth and Wilder streets. Architects, Magaziner & Potter, 603 Chestnut street. Owners, Mount Sinai Hospital, on premises. Brick, fireproof, two stories, 40x45 feet, slag roof. Plans in progress.

School, Northfield, N. J. Architect, Earle M. Henderer, Ocean City, N. J. Owners, Board of Education, Northfield, N. J. Brick and terra cotta, fireproof, three stories, 58x65 feet, slag roof, electric light, steam heat, expanded metal, waterproofing and dampproofing, composition floors. Revised plans in progress.

Garage and Hall, South and Water streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, John Cassidy, on premises. Brick and concrete, three stories, 30x40 feet, slag roof, electric light, steam heat, metal sash. Plans completed. Architects ready for bids.

School, Elkins, W. Va. Architect, Frank L. Packard, Columbus, Ohio. Owners, Board of Education, Elkins, W. Va. Brick and concrete, fireproof, three stories, 114x128 feet, composition roof, dampproofing, metal lath, electric light, steam heat. Owners taking bids, due January 14th. J. E. & A. L. Pennock, Land Title Building, are figuring.

Residence, Newtown Square, Pa. Architect, A. B. Gill, 1655 North Fifty-sixth street. Owner, James P. Calvert, Newtown Square, Pa. Stone, two and one-half stories, 39x54 feet, electric light, asbestos shingle roof, hot water heat, hardwood floors. Architects taking bids, due January 14th. The following are figuring: A. Whitehead, 1624 Latimer street; M. Roy Sheen, 450 North Wilton street; J. B. Flounders, 1329 Arch street; W. D. Leach, Llanerch, Pa.; W. Harry Roberts, Newtown Square, Pa.; P. J. Burley, 1233 Cherry street.

Hall (alt. and add.), Bridgeton, N. J. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Immaculate Conception Parish, Bridgeton, N. J. Frame, one story, shingle roof, electric light, steam heat. Plans in progress.

Store, 6837 Germantown avenue. Architect, A. S. Aiman, Mt. Airy, Philadelphia.

Owner, Eugene K. Paul, on premises. Brick, two stories, 30x100 feet, slag roof, electric light, steam heat. Plans in progress.

Store and Dwelling (alt. and add.), 2654 Kensington avenue, \$7,200. Architect, J. F. Crowe, 3127 Belgrade street. Owner, S. Heicklen, on premises. Brick, two stories, 22x66 feet, slag roof, electric light. Owners taking sub-bids on all lines.

Club House (add.), 157-159 North Fifteenth street. Architects, Watson & Huckel, 1211 Walnut street. Owners, International Society of Waiters and Bartenders, 1131 Arch street. Brick and terra cotta, three stories 36x100 feet, slag roof, electric light, vapor vacuum heat, dampproofing, marble interior, expanded metal. Architects taking bids, due January 14th. (Note change of date.) The following are figuring: Stacy Reeves & Sons, 2011 Market street; J. G. Doak & Co., Crozer Building; J. R. Jackson, Perry Building; Cramp & Co., Denckla Building; A. R. Raff, 1635 Thompson street; A. H. Williams & Sons, 519 Locust street; Irwin & Leighton, 126 North Twelfth street; F. E. Wallace, 1210 Sansom street; Lam Building Company, 1001 Wood street; Ed. Fay & Sons, 2 South Mole street; Joseph Padoliss, 1647 Ellsworth street; H. E. Evans, 1504 North Mervine street; J. J. Ploucher, 4941 Willows street; Owen Fogarty, 1918 Cherry street.

Mill Building, Manayunk, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, A. T. Baker & Co., on premises. Brick, steel and concrete, four stories and basement, 65x210 feet, slag roof, pipe railings, waterproofing, dampproofing, steel sash, metal lath (power equipment, elevators, heating and light reserved). Architects taking bids, due January 13th. The following are figuring: William R. Dougherty, 1610 Sansom street; E. E. Hollenback, Fifteenth and Race streets; Irwin & Leighton, 126 North Twelfth street; Doyle & Co., 1519 Sansom street; J. G. Doak & Co., Crozer Building; Cramp & Co., Denckla Building; Charles McCaul Company, Tenth and Sansom streets, Roydhouse-Arey Company; Fidelity Building; Charles Gilpin, Harrison Building; A. White-

head, 1624 Latimer street; Turner Concrete Steel Company, 1713 Sansom street; Industrial Eng. Co., 95 Liberty street, New York City; Barclay White & Co., Perry Building.

Residence, Drexel Hill, Pa. Architect, George S. Idell, 34 South Sixteenth street. Owner's name withheld. Stone, one and one-half stories, 40x46 feet, shingle roof, electric light, hot water heat. Plans in progress. Bids in about two weeks.

Stores and Residences (21), Tacony Philadelphia. Architect, George S. Idell, 34 South Sixteenth street. Owner's name withheld. Brick, two stories, 14x30 feet, slag roof, hot air heat. Plans in progress. Bids in about one week.

School, Huntingdon, Pa. Architect, J. Herbert Hall, Huntingdon, Pa. Owners, Board of Education. Brick and concrete, fireproof, two stories and basement, 72x137 feet, electric light, steam heat, slag roof. Owners taking bids, due January 13th. Roydhouse-Arey Co., Fidelity Building, are figuring.

Residence, Media, Pa. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. M. Jacobs, 1312 South Fifteenth street. Frame, one and one-half stories, 34x39, shingle roof, electric light, hot water heat. Architect taking bids, due January 10th. The following are figuring: H. E. Grau Company, 1707 Sansom street; Lindsay & Moorehouse, Media, Pa.; J. E. Worillow and Baker Bros., also of Media, Pa.

Residence and Garage, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, F. A. Shick, West Bethlehem, Pa. Hollow tile and plaster, two and one-half stories, 44x54 feet, slate roof, electric light, oak floors (vapor heat reserved). Owner taking bids, due January 8th. F. T. Mercer, 1706 Delancey street, is figuring.

Residences (3), Oakmont, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Frank H. Mahan, Ardmore, Pa. Stone and frame, 2½ stories, shingle roofs, hot-water heating, hardwood floors, electric light. Owner is taking bids.

Hotel, Springfield, O. Architects, Allyn Co., Cincinnati, O. Owner, Bushnell Hotel

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Co., Springfield, O. Brick and terra cotta, fire-proof, 7 stories, 84x149 feet, composition roof, electric light, steam heat, metal lath and expanded metal, marble interior, water-proofing, elevators, metal frames and sash. Architect taking bids due January 14th. Charles McCaul Co., Tenth and Sansom streets, is figuring.

Residences (40), Broomall and Elliott streets, between Fifty-fifth and Fifty-sixth streets. Architect, private plans. Owner, Daniel Crawford, Jr., 701 North Sixty-third street. Brick, 2 stories, hot-water heat, 16x40 ft. Owners taking sub-bids.

Residence (alt. and add.), Frazier, Pa. Architects, Evans & Warner, Witherspoon

Building. Owner's name withheld. Frame, two and one-half stories, 30x40 feet, hot air heat, shingle roof. Plans in progress.

Residence and Garage, Merion, Pa. Architects, Druckenmille & Williams, Land Title Building. Owner's name withheld. Stone, two and one-half stories, 33x73 feet; wing, 22x50 feet, slate roof, electric light, hot water heat, hardwood floors. Plans in progress. Bids in about three weeks.

Rectory (add.), Bryn Mawr, Pa. Architects, Evans & Warner, Witherspoon Building. Owner, Church of the Redeemer, Bryn Mawr, Pa. Stone, one story, 20x25 feet, slate roof, electric light. Plans about completed. Bids in about three weeks.

Residences (12), Camac street, north of Wyoming avenue. Architect, private plans. Owner, Ernest H. Sturts, 2614 Ridge avenue. Brick and stone, two stories, 16x41 feet, slag roof, electric light, hot water heat, hardwood floors. Plans in progress. Owner will take sub-bids on all lines.

Library, Ardmore, Pa. Architects, Evans & Warner, Witherspoon Building. Owners, Ardmore Free Library, Ardmore, Pa. Brick, one story, 25x50 feet, slate roof, electric light, hot water heating. Plans in progress.

Residence (alt. and add.), Paoli, Pa. Architects, Evans & Warner, Witherspoon Building. Owner's name withheld. Stone, three stories, 19x32 feet and 26x40 feet, electric light, shingle roof, hot water heat. Plans in progress.

Twin Cottages, Paoli, Pa. Architects, Evans & Warner, Witherspoon Building. Owner, Mrs. S. B. Davis, Paoli, Pa. Frame, two and one-half stories, 20x70 feet, shingle roof. Plans in progress.

Garage, Germantown avenue and Mermaid lane. Architects, Koelle, Speth & Co., Twenty-sixth and Oxford streets. Owner, Adam Lotz, 7673 Germantown avenue. Stone, two stories, 50x50 feet, slag roof, electric light. Plans in progress.

Picture Theatre, Stenton avenue and Sprague street, \$10,000. Architect, private plans. Owner, Walter R. Flaherty, Drexel Building. Brick and terra cotta, one story, 40x95 feet, slag roof, electric light, steam heat. Plans in progress. Owner will take bids in about two weeks.

Bank (alt. and add.), Broad and Diamond streets. Architects, Street & Stackhouse, Drexel Building. Owners, Broad Street Bank, care of Dr. J. B. Mayer, Broad and Cayuga streets. Brick, three stories, 19x95 feet, slag roof, electric light, marble interior. Architects taking bids, due January 12th. The following are figuring: H. P. Schneider, 3713 York road; J. D. Fisher, 5718 Market street; H. E. Grau Company, 1707 Sansom street; J. B. Flounders, 1329 Arch street; A. Whitehead,

1624 Latimer street; J. Sims Wilson, 1125 Brown street.

Hotel, Eighth and Vine streets. Architects, Knapp & Bosworth, Wilkes-Barre, Pa. Owners, Salvation Army, care of Col. Holz, Broad and Lombard streets. Brick, steel and concrete, six stories, 40x100 feet. Plans in progress.

Picture Theatre, Hunting Park avenue, west of Germantown avenue. Architect, Herman Miller, Crozer Building. Owner, John Janke, Broad and Cheltenham avenue. Brick and terra cotta, fireproof, one story, 42x125 feet, slag roof, metal lath, electric light, steam heat. Architect taking revised bids, due January 12th. The following are figuring: H. E. Baton, Tenth and Sansom streets; Lam Building Company, 1001 Wood street; F. G. Myhlertz, 1723 Filbert street; A. Whitehead, 1624 Latimer street; George & Borst, 277 South Eleventh street.

Residence (alt. and add.), Lynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, S. H. Croft, on premises. Stone, two and one-half stories, slate roof (heat and light reserved). Revised plans in progress. Bids in three days.

SPACE FOR A SMILE.

Pat and Mike were working on a new building. Pat was laying brick and Mike was carrying the hod. Mike had just come up to the fourth floor when the dinner whistle blew. His lunch was on the ground.

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Pat let him down half way and then let go of the rope. Mike landed in a mortar bed, not much hurt, but terribly mortified.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, Moylan, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, H. Lee, Moylan, Pa. Brick and plaster, 2½ stories, 37x24 feet, wing, 15x22 feet, hot-water heating, hardwood floors, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street.

Fire House (alt. and add.). Jail, Collingdale, Pa. \$1,000. Architect, W. R. Wallen, Collingdale, Pa. Owner, Collingdale Volunteer Fire Company, No. 1, Collingdale, Pa. Brick, 2 stories, electric light, steam heat, slag roof. Contract awarded to J. W. Meckert & Co., Glenolden, Pa.

Hotel (alt. and add.), 1337 to 41 Arch street. Architect, C. P. Berger, Penn Square Building. Owner, Charles W. Soulas, on premises. Brick, one and two stories and interior alterations and addition, electric lighting. Contract awarded to Charles O'Neill, 1216 South Broad street.

Office and Salesroom, 3214 Chestnut street. Architect, private plans. Owner, C. W. Schaffer, 1605 Sansom street. Brick, two and four stories, 18x41 feet and 18x18 feet, slag roof,

heating and lighting reserved. Contract awarded to F. T. Mercer Company, 1706 Delancey street.

Theatre, Germantown avenue and Graver's lane, \$15,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owner's name withheld. Brick and terra cotta, two stories, 49x114 feet, steam heat, electric light, slag roof, dampproofing, expanded metal. Contract awarded to A. Whitehead, 1624 Latimer street.

Store and Residence, Oak Lane, Pa., \$3,500. Architect, Private plans. Owner, John A. Lottes, 1302 City Line. Brick, two and one-half stories, 20x35 feet, slate roof, electric light, steam heat. Contract awarded to Oak Lane Park Building Company, Oak Lane, Pa.

Coal Pockets, Office and Stable, Lancaster, Pa. Architect, William Hunter, Twelfth and Market streets. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets. Concrete, steel and frame, one and two stories, 19x20 feet and 34x29 feet, slag roof, electric light. Contract awarded to Witmer & Warsel, 958 East Orange street, Lancaster, Pa.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Ratkin & Milikin (O), 7717 Brewster avenue. Cost, \$16,000. Eight dwellings, brick, two stories, 14x34 feet, Seventy-eighth and Holstein avenue.

Weightman Tstate (O), 1524 Chestnut street. **J. S. Talley** (C), 1931 Market street. Cost, \$17,000. Store and warehouse, brick, five stories, 28x150 feet, 246 North Delaware avenue. Cost, \$1,500.

D. Rotello (O), Main street. **M. Dura** (C), 324 Harvey street. Cost, \$2,400. Store and dwelling, brick, three stories, 15x39 feet, Pensdale and Cresson streets.

Joseph Pagnacco (O), 1428 Rockland street. **R. Pagnacco** (C), 1428 Rockland street. Cost, \$7,000. Two dwellings, brick, two stories, 15x34 feet, 1430 Rockland street.

Simon Heicklen (O), 2412 Howard street. **J. F. Crowe** (C), 3127 Belgrade street. Cost, \$7,140. Dwelling, brick, three stories, 22x42 feet, 2654 Kensington avenue.

E. D. Nunt (O), 5413 North Fairhill street. Cost, \$26,000. Thirteen dwellings, brick, two

stories, 16x42 feet, Fourth and Ashdale streets.

Christopher Koch (O), Water and McKean streets. **G. W. Stewart** (C), 2123 Germantown avenue. Cost, \$4,500. Stable, brick, two stories, 26x69 feet, Water and McKean streets.

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McFee lived in Brooklyn, but moved out. One of the men in the office asked him what was the greatest charm of his new home.

"The bath room," he replied. "My wife thinks it so cute she can hardly wait for Saturday to come, so that she can try the tub."

* * *

Casey: "You're a har-rd worruker, McGinness. How many hods o' morthor have yez carried up that ladder th' day?"

McGinness: "Whist, man, I'm foolin' th' boss. I've carried this same hodful up an' down all day, an, he thinks I'm worrukin'!"

**F. J. Griswold, general manager of the American Gypsum Co., reports that conditions in the plaster business are good. The plaster mills in the vicinity of Port Clinton are kept busy and from all indications the dealers receiving the output of these factories are enjoying a satisfactory trade.

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Spear & Co. tell about the owner of a certain loft building who on the advice of his architect placed the boiler in the rear of the basement. The expert building manager, however, would have strongly insisted that the proper place for the boiler was in front, as labor in carting coal and ashes to and from would have been economized.

It is curious that a number of the recently erected buildings have failed to include damper regulations as part of their boiler equipment. Yet if the building manager were consulted he would tell the owner that without a damper regulator there is a considerable fuel loss. By substituting the damper regulator to open and close the fire and ashpit doors in place of pressure controlled by hand, the cost of installation can be saved inside of a year, and thereafter return a handsome dividend in savings.

The owner may go astray in little items, which may be a source of serious damage, but which the experience of the building manager will avoid.—"New York Record and Guide."

Many a man has a "Do It Now" motto over his desk and cobwebs on his brain and dust on the desk.

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Alterations and Additions

Levick & Waldo (O), 1827 South Seventh street. P. Savar (C), 718 Snyder avenue. Cost, \$800. Store and dwelling, 2913 North Fifth street.

J. O. Toomey (O), 3314 Van Kirk street. B. Isenberg (C), 3822 Poplar street. Cost, \$675. Hall, 3314 Van Kirk street.

Bell Telephone Company (O), 1320 Arch street. H. C. Rea Company (C), 1027 Wood street. Cost, \$2,000. Exchange, Seventeenth and Allegheny avenue. Cost, \$4,000. Exchange, Fourth and Manning streets.

Lit Brothers (O), Eighth and Market streets. J. R. Wiggins Company (C), 1215 Filbert street. Cost, \$5,000. Store (alt. and add.), Eighth and Market streets.

C. W. Shaffer (O), 4917 Walton avenue. F. T. Mercer Company (C), 1706 Delancey street. Cost, \$6,000. Store and salesroom, 3214 Chestnut street.

James Butler (O), 4920 Lawrence street. F. J. Blatz (C), 4923 North Lawrence street. Cost, \$800. Stable, 4920 North Lawrence street.

Union Fertilizer Company (O), 897 Drexel Building. Cost, \$1,000. Elevators, Bigler and Delaware avenue.

F. G. Kreitzer (O), 4237 Lancaster avenue. W. E. Biscoe (C), 3954 Ludlow street. Cost, \$1,100. Stable, 4233 Parrish street.

Lebanon Hospital (O), 419 North Fourth street. Lam Building Company (C), 1001 Wood street. Cost, \$2,500. Hospital, 1728 North Seventh street.

Philadelphia Paper Manufacturing Company (O), Manayunk, Philadelphia. Cost, \$2,500. Garage, Manayunk, Philadelphia.

J. F. Clark & Sons (O), 1300 Jefferson

street. Cost, \$750. Store and dwelling, 1300 Jefferson street.

John Stortz (O), 1127 North Third street. Cost, \$1,500. Dwelling, 1135 North Third street.

U. G. I Co. (O), Broad and Arch streets. Cost, \$2,000. Pump room, Delaware avenue and Tioga street.

Robert Tinamen (O), 4256 Frankford avenue. W. Myers (C), 2000 East Cambria street. Cost, \$2,500. Laundry, 1752 North Twentieth street.

W. Ripka (O), 1525 North Eighth street. George Gemunden (C), 1644 North Perth street. Cost, \$800. 42 North Eighth street.

H. A. Dreer (O), 714 Chestnut street. F. L. Hoover & Sons (C), 1023 Cherry street. Cost, \$1,500. Store, 716 Chestnut street.

H. A. Nash (O), Fiftieth and Sansom streets. Alfred James (C), Bala, Pa. Cost, \$1,200. Residence, Fiftieth and Sansom streets.

Dr. H. Heilman (O), 1014 West Dauphin street. F. Deitrich, Jr. (C), H and Patter streets. Cost, \$3,000. Dwelling, 1014 West Dauphin street.

Charles Soulas (O), 1162 South Broad street. C. O'Neill (C), 1216 South Broad street. Cost, \$2,000. Hotel, 1337 Arch street.

M. S. Oberholtzer (O), 5524 Pulaski avenue. Cost, \$3,000. Shop, 5524 Plaski avenue.

St. Joseph's Hospital (O), Sixteenth and Girard avenue. John McShain (C), 631 North Seventeenth street. Cost, \$9,450. Hospital, Sixteenth and Girard avenue.

R. H. Brock (O), 1612 Walnut street. H. H. Burrell (C), 1204 Chancellor street. Cost, \$2,500. Store room, 1609 Chancellor street.

NEW JERSEY

Construction News

Church (add.), Princeton, N. J. Architects, Cram & Ferguson, Boston, Mass. Owners, Trinity Church, Princeton, N. J. Stone, one story, 26x42 feet, slate roof, electric light, steam heat, marble interior, waterproofing, metal lath. Architects taking bids, due January 9th. J. S. Cornell & Sons, Land Title Building, Philadelphia, are figuring.

Hall (alt. and add.), Bridgeton, N. J. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owner, Immaculate Conception Parish, Bridgeton, N. J. Frame, 1 story, shingle roof, electric light, steam heat. Plans in progress.

Church (alt.), Princeton, N. J. Architects, Cram & Ferguson, Boston, Mass. Owner, Trinity Church, Princeton, N. J. Brick and concrete, fire-proof, 2 stories and basement, 72x137 feet, electric light, steam heat, slag roof. Owners taking bids due January 13th. Roydhouse-Grey Co., Fidelity Building, Philadelphia, is figuring.

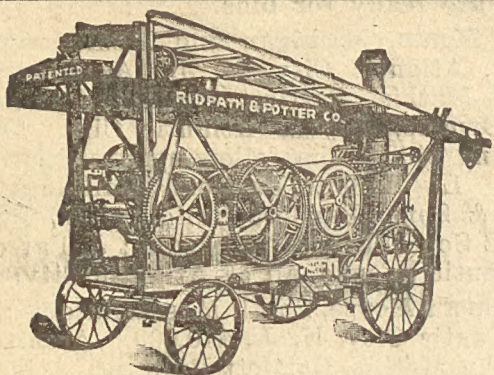
Residence, Greenwood avenue, near Chestnut street, Trenton, N. J. Architect, W. W. Slack & Son, American Mechanic Building,

Trenton, N. J. Owner, C. Edward Murray, Trenton, N. J. Architect will take bids in ten days.

Department Store, Trenton, N. J. Architect, Kleeman & Fowler, First National Bank, Trenton, N. J. Owner, H. M. Voorhees & Bro., 109 East State street, Trenton, N. J. Brick and terra cotta, 4 stories. Plans completed.

Church Hall, Hopewell, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, First Presbyterian Church, care of Herbert Fretter, Chairman, Hopewell, N. J. Brick, 1 story, 59x54 feet, slate roof, steam heat, electric lighting, tile floors. Plans in progress.

Moving Picture Parlor, Hall and Lodge Building, Hopewell, N. J. \$15,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, C. N. Allen, Jr., Hopewell, N. J. Brick and stone, 3 stories, 48x100 feet, hollow tile, slag roof, electric light, steam heat. Plans in



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progress. Architects take bids in about one month.

Pier (add.), Atlantic City, N. J. Architects, Simon & Bassett, 1118 Chestnut street, Philadelphia. Owner, Pier Realty & Holding Co., care of Alfred Burk, 409 Arch street, Philadelphia. Concrete and steel, 1000 feet long. Plans in progress.

Theatre, Arcade and Stores, Atlantic City, N. J. Architects, Simon & Bassett, 1118 Chestnut street, Philadelphia. Owner, Steel Pier Co., Atlantic City, N. J. Brick, steel and concrete, fire-proof, 1 story, 200x150 feet. Plans in progress.

Hospital, Riverside, N. J. \$60,000. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, Estate of T. J. Zurburg, care of Samuel Hyneman, Land Title Building, Philadelphia, and A. A. Jackson, Stephen Girard Building Philadelphia. Brick, stone and steel, fire-proof. Details undecided. Plans about to be started.

Water Works (add.), Moorestown, N. J. Engineer, George Pfeifer, Second and Market streets, Camden, N. J. Consulting Engineer, Alexander Potter, 50 Church street, New York City. Owners, Township of Chester, care of D. R. Lippincott, Chairman; S. E. Jones, Clerk, Moorestown, N. J. Brick, 1 story. Plans in progress.

Residence (2), 1163-65 Morton street, Camden, N. J. \$4,500. Architect, private plans. Owner, John Makel, 1153 Morton street, Camden, N. J. Brick, 2 stories, 16x44 feet, slag roof, hot-air heat. Owner taking sub-bids.

Residences (5), 3801-13 Westfield street, Camden, N. J. \$12,000. Architect, private plans. Owner, Cramer Realty Co., Thirty-fourth and Federal streets, Camden, N. J. Frame, 2½ stories, slate roof, hot-air heat, 14x36 feet. Owners taking sub-bids.

School, Columbus, N. J. \$10,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 70x110 feet, slate roof (heat and light, reserved). Plans about completed. Bids in two weeks.

School, Georgetown, N. J. \$4,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Brick, 1 story, 45x45 feet, slate roof, heat and electric light. Plans completed. Bids in two weeks.

School, Mansfield, N. J. \$3,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Brick, 1 story, 45x90 feet, slate roof (heat and light, reserved). Plans about completed. Bids in two weeks.

School, Hedding, N. J. \$3,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Bids in two weeks.

Residence (3), Beverly, N. J. Architect, H. B. Ward, Witherspoon Building. Owner, William Ely, Beverly, N. J. Hollow tile, plaster and frame, 2 stories, tile and shingle roofs, hot-air heating, electric lighting. Owner and architect taking bids due January 14th. The following are figuring: George W. Shaner, Palmyra, N. J.; Hugh B. Miller, Edgewater Park, N. J.; Joseph Hammel, Beverly, N. J.

Fire House. Site not selected. \$14,000. Architect, W. P. Endelroch, American Mechanics' Building, Trenton, N. J. Owner, City of Trenton, care George B. La Barre, City Hall, Trenton, N. J. Brick and stone, 2 stories and tower, slag and slate roof, steam heat, electric light, metal lath, rolling door. Sketches in progress.

Residence (remodeled to apartment house), Trenton, N. J. \$10,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, name withheld. Brick, 3 stories, 32x104 feet, slag roof, electric light, steam heat, tile, bath, metal bath. Plans in progress. Architect will take bids in about one month.

Residences (15), \$2,500 each, Spruce street, Princeton avenue and Olden avenue, Trenton, N. J. Architect, private plans. Owner, Samuel Hilton, 126 Pennington avenue, Trenton, N. J. Brick, 2 stories, 16x44 feet, slag roof, hot-air heating. Owner will take sub-bids in a few weeks.

Orphan Asylum, Hopewell, N. J. \$40,000. Architect, W. P. Endelroch, American Mechanic Building, Trenton, N. J. Owner, St. Michael's Orphanage, care Right Rev. Bishop James A. McFaul, 153 North Warren street, Trenton, N. J. Brick, reinforced concrete, 4 stories, 50x96 feet, ornamental terra cotta, hollow tile, slag roof, steam heat, electric light. Sketches in progress.

Children's Home, Perry street and Broad, Trenton, N. J. \$40,000. Architect, W. P.

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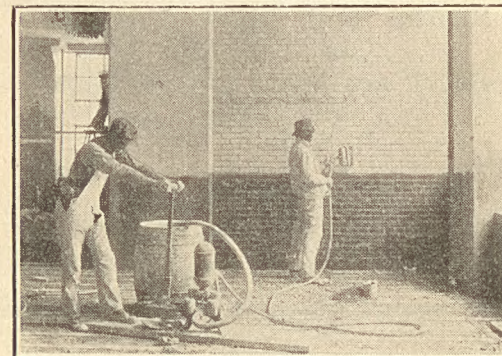
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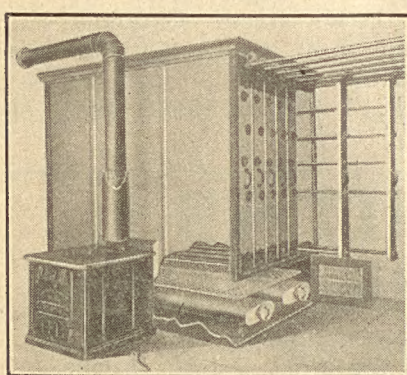
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Endelroch, American Mechanic Building, Trenton, N. J. Owner, Roman Catholic Church, Trenton Diocese, care Right Rev. Bishop A. McFaul, 153 North Warren street, Trenton, N. J. Brick and stone, 3 stories, reinforced concrete, hollow tile, slate and slag roof, steam heat, electric light. Sketches in progress.

Home (add.), Clinton street, Trenton, N. J. \$5,000. Architect, J. O. Hunt, 206 East Hanover street, Trenton, N. J. Owner, Friends' Boarding Home, 56 North Clinton street, Trenton, N. J. Brick and stucco, 3 stories, 27x50 feet, slag roof, electric light, heating extensions. Architect will take bids about March 1st, 1914.

Store House, Atlantic City, N. J. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owner, City of Atlantic City, N. J., care of H. Bacharach, Director, City Hall, Atlantic City, N. J. Brick, 1 story, 40x70 feet, slag roof, electric light,

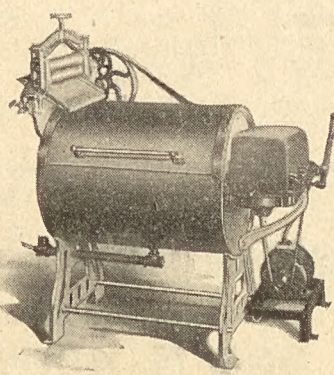


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Store House, Michigan and Mediterranean avenues, Atlantic City, N. J. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City. Owners, City of Atlantic City. Owners taking bids. The following are figuring: Edward L. Bader, Bartlett Building; J. Mathis & Sons, Bartlett Building, W. Beaumont, 12 South Tennessee avenue; J. Parsons, 225 Atlantic avenue, all of Atlantic City.

Apartment House, South Massachusetts avenue, Atlantic City, N. J., \$10,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owner, Miss Gertrude Koetsier, care of architect. Brick and hollow tile, three stories, 24x71 feet, red brick, slag roof, hot water heating, electric light, tile baths. Architect taking bids. J. Mathis & Son, Bartlett Building; W. Beaumont, 12 South Tennessee avenue; W. Kandle, 501 Oriental avenue; P. G. Hannum, 16 North Georgia avenue; R. A. Bowen, all of Atlantic City, N. J., are figuring.

Cottages (2), Willow Grove, Pa., \$3,000 each. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner's name withheld. Frame, two and one-half stories, 20x36 feet, shingle roof, hot air heat. Plans in progress.

Water Works, Wildwood, N. J., \$5,000. Engineer, George Pfeiffer, 27 Market street, Camden, N. J. Owners, City of Wildwood, care of Frank Smith, Mayor, Wildwood, N. J. Brick, one story, slate roof. Plans in progress.

Store and Residence, Ventnor and Baton Rouge avenue, Ventnor City, N. J., \$15,000. Architect, Seward G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, L. C. Maulich, 214 Victoria avenue, Ventnor, N. J. Brick, frame and stucco, three and one-half stories, 22x55 feet, slate and slag roof, hot water heating, metal lath, tile floors. Architects taking bids, due January 9th. E. E. Smith, 2809 Fairmount avenue; J. E. Steelman, 12 South Connecticut avenue; W. Beaumont, 12 South Tennessee avenue; W. G. Taylor & Son, Inc., Bartlett Building; Josiah Conover, Venice Park; H. G. Scull, Sheen Building, all of Atlantic City, N. J.; C. S. Corson, Linwood, N. J., and George L. Sipps, 912 Locust street, Philadelphia, are figuring.

New Jersey

Contracts Awarded

Pier (add.), Steeplechase, Virginia avenue, Atlantic City, \$25,000. Engineer, C. S. Voorhees, 177 Montague street, Brooklyn, N. Y. Owners, Pier Corporation of New Jersey. Frame, one story, 150x346 feet. Contract awarded to C. S. Voorhees, 177 Montague street, Brooklyn, N. Y.

Store, Apartments and Garage, Beverly, N. J. \$20,000. Architect, Jacob Naschold, 5148 Sansom street. Owner, A. H. Butterworth, Beverly, N. J. Brick and hollow tile, 1 and 2 stories, 50x58 feet and 50x700 feet, slag and slate roofs, steam heating, electric lighting. Contract awarded to J. F. McCloskey, 210 New street, Philadelphia.

Boiler House, Lalor street, Camden, N. J. \$4,000. Architect, J. O. Hunt, 206 East Hanover street, Trenton, N. J. Owner, name withheld. Brick, 1 story, 40x60 feet, slag

reinforced concrete. Owners taking bids due January 14th, 2 P. M.

Sewerage Disposal Plant, Riverton, N. J. Engineer, J. Haines, Burlington, N. J. Consulting Engineer, G. W. Fuller, 170 Broadway, New York City. Owner, Borough of Riverton, care of J. H. Reese, Riverton, N. J. Brick and concrete, 1 story. Plans completed. Owners will soon be ready for bids.

Residence, Riverside, N. J. \$5,000. Architect, H. O. Zeigler, Riverside, N. J. Owner, name withheld. Stone and frame, 2½ stories, 28x42 feet, slate roof, hot-air heat, electric light. Plans in progress. Architect will soon be ready for bids.

Factory, probably Chester, Pa. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, Morris Rosenblum, Beverly, N. J. Brick, 2 stories, 90x160 feet. Plans in progress. Too early for details.

Church (alt. and add.), Haddonfield, N. J. \$10,000. Architect, W. C. Prichett, 416 Walnut street, Philadelphia. Owner, Grace Episcopal Church, Haddonfield, N. J. Stone and brick, 2 stories, 40x86 feet, slate roof, electric light, heating extension. Plans in progress.

Residences (5), Bartlett avenue, Atlantic City, N. J., \$10,000. Architects, Stout & Reibenack, Bartlett Building, Atlantic City, N. J. Owner, John McGlynn, North Pennsylvania avenue, Atlantic City, N. J. Brick, two stories, 14x30 feet, slag roof, electric light. Architect taking bids. W. Beaumont, 12 S. Tennessee avenue, and Samuel Headley, Bartlett Building, Atlantic City, are figuring.

Residence and Garage, North Cornwall avenue, Ventnor, N. J., \$15,000. Architect, Seward G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, J. Parker, care of architect. Brick and hollow tile, three and one-half stories and one story, slate roof, hot water heat, electric light, metal corner beads, hardwood floors, tile baths. Plans in progress. Architect will take bids in ten days.

Residence, Seaview, N. J., \$5,000. Architect, Seward G. Dobbins, 116 North Brighton avenue, Atlantic City. Owner, Walter Gilman, 518 Walnut street, Philadelphia. Concrete block and frame, two and one-half stories, 28x42 feet, shingle roof, electric light (heating reserved). Plans in progress. Architect will take bids in two weeks.

Department Store, Egg Harbor City, N. J., \$10,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, Max Rittenburg, Egg Harbor City, N. J. Brick, two stories, slag roof, steam heat, metal ceilings, electric light. Owner ready for bids.

Store Building (alt. and add.), Ocean City, N. J., \$5,000. Architect, E. M. Henderer, Ocean City, N. J. Owners, Reide-Paiste Hardware Company, Ocean City, N. J. Brick, two stories, 29x90 feet, slag roof, metal ceilings, steam heat, electric light, elevator. Plans completed. Owner ready for bids.

Apartment House, Atlantic City, N. J., \$100,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner's name withheld. Brick and granite, fireproof, six stories, 150x140 feet, slag roof, steam heat, electric light, electric elevators. Plans about completed. Architect will soon take bids.

School, Absecon, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owners, Board of Education, Absecon, N. J. Brick, two stories, 50x85 feet.

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 concrete or any good foundation.

roof (power equipment, reserved). Contract awarded to Scott & Day, 29 Cuyler avenue, Trenton, N. J.

School, Riverside, N. J., \$38,000. Architects, Moffett & Stewart, Camden, N. J. Owners, Board of Education, Riverside, N. J. Brick and stone, fireproofing, two and one-half stories, slag and slate roof (heat and light reserved), hollow tile, expanded metal fireproofing. Contract awarded to Peterson Construction Company, Clayton, N. J.

Hotel, Tennessee avenue, Atlantic City, N. J., \$20,000. Architect, S. G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, Frank Pinnelli, Tennessee avenue, Atlantic City. Brick, four stories, 32x68 feet, slag roof, hot water heat, electric light. Contract awarded to Charles S. Corson, Linwood, N. J.

Cast Iron Syphon, 48 inches, under Beach Thoroughfare, Atlantic City, N. J. Engineer, Lincoln Van Gilder, City Hall, Atlantic City. Owners, City of Atlantic City, care of H. Bacharach, City Hall, Atlantic City. Contract awarded to Eugene Boehn, North Florida avenue, Atlantic City, N. J.

Water Main, Arctic avenue, from Missouri

avenue to Main avenue. Engineer, Lincoln Van Gilder, City Hall, Atlantic City. Owners, City of Atlantic City, care of H. Bacharach, City Hall, Atlantic City. Cast iron, 20x24 inch iron pipe, concrete and timber pilings, etc. Contract awarded to E. L. Bader, Bartlett Building, Atlantic City, N. J.

Residence, Ventnor, N. J., \$18,000. Architect, J. Fletcher Street, Drexel Building. Owner, C. D. White, care Marlborough-Blenheim, Atlantic City, N. J. Reinforced concrete and hollow tile, three and one-half stories, 60x60 feet, tile roof, hot water heat, electric light, hardwood floors, tile bath. Contract awarded to Atlantic Building and Construction Company, Union National Bank Building, Atlantic City, N. J.

Building (alt. and add. to Moving Picture Parlor), 935 Boardwalk, Atlantic City, \$4,000. Architects, Hoffman & Co., Thirteenth and Walnut streets. Owners, Boardwalk Corner Property Company, on premises. Brick, one story and two stories, 60x100 feet, slag roof, metal lath, hot water heat, electric lighting. Contract awarded to C. P. Tilton, 9 South Pennsylvania avenue, Atlantic City.

EXTRACTS FROM THE REPORT OF THE COMMITTEE ON PUBLIC INFORMATION FOR THE 47th ANNUAL CONVENTION AMERICAN INSTITUTE OF ARCHITECTS

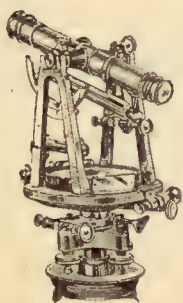
Members and others who attended the last Convention will remember the forceful address delivered by Franklin H. Wentworth, Secretary of the National Fire Protection Association, in which he made a convincing appeal for the co-operation of the Institute in the work for which his association stands. Very shortly after that occasion the Chairman of this Committee, after conferences with Mr. Wentworth and with the officers of the Institute and of eighteen Chapters, arranged for a speaking tour by Mr. Wentworth, under the auspices of the Institute, before those Chapters which he could reach in a month's travel.

Even after the itinerary was completed, such interest was manifested in the spreading of the fire prevention propaganda that additional Chapters were placed on the list, as well as State Architectural Associations (not integral units of the Institute) in some of the States through which Mr. Wentworth would pass. In two of these States Chapters of the Institute have since been formed.

The American Institute of Architects,

through its Chapters, in thus bringing the public in general and architects and professional men in particular to a realization of what can be done by all of them in lessening the fire risk and in aiding in the conservation of human life and property, placed itself before the country as a public spirited body of men quite as much interested in the community welfare as in the advancement in other directions of the profession which it represents. The educational value, also, of the discussions and of the notices concerning the various meetings which appeared in the press is a factor not to be lost sight of.

It would appear significant that, shortly after his tour, at the Annual Convention of the National Fire Protection Association, an architect, a member of the Institute and President of its largest Chapter, was elected President of the National Fire Protection Association, and that the association created a National Committee on Public Information with subcommittees in all principal territories, modeled upon the lines of that in our Institute. At the same convention the chairman of our Committee was privileged to address



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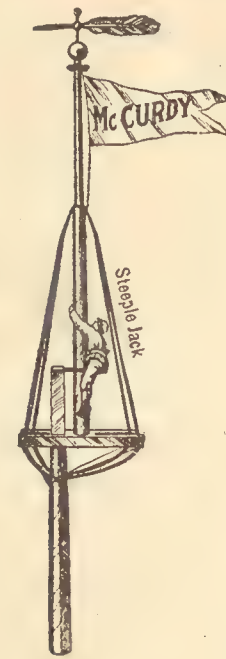
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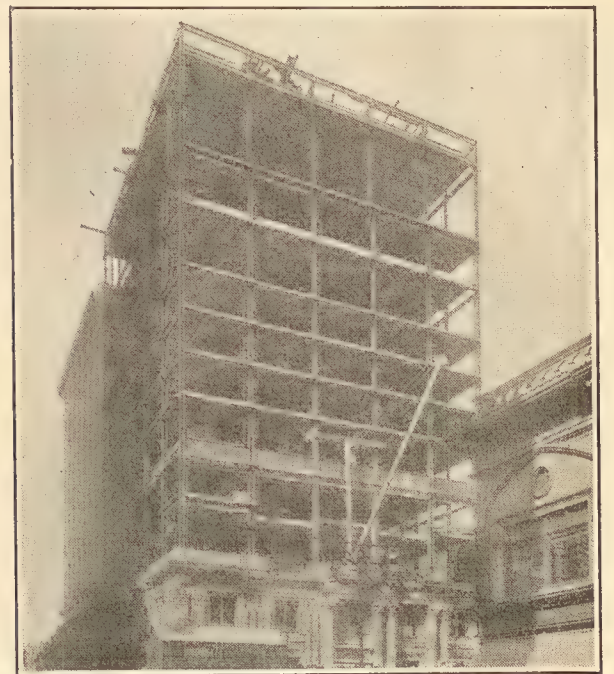
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the members on "Co-operation in Public Information."

Many occasions have been found to correct erroneous statements appearing in the public press and elsewhere. You may recall among these Mr. LaFarge's excellent reply in the "Independent" to a criticism of the classical conception of the Lincoln Memorial. In some cases chairmen of sub-committees have traced to the source causes of dissatisfaction or misunderstanding and have established a truer point of view. Mr. Worthington, of the Baltimore Chapter, by means of interviews with an officer of the National Building Trades and Employers' Association, which was putting out one-sided statements, was instrumental in arranging for a conference between that association and the proper committee of the Institute to discuss all points at issue in connection with our standard documents.

Our Committee, considering that anything which will tend to bring about a better understanding between the architect, the owner and the contractor constitutes most desirable public information, will endeavor to work with and assist all committees having to do with Quantity Surveying and bettering the conditions of estimating; improving of materials, workmanship and technical service; and standardizing the sizes of catalogues and reading matter. And it recommends that the Institute take steps to co-relate these professional activities.

One of our activities, which has been earnestly entered into by many of the sub-committees, has been to enlist the co-operation of the daily press in more fully informing the public on architectural and allied subjects.

This has inevitably included the part played by the Institute and by the profession in elevating the standard of design and in improving the construction of buildings and their accessories—subjects which are more and more becoming of vital interest to the public by reason of their close relationship to the enjoyment, the comfort and the safety of the whole people.

We have sought to bring about a clearer understanding and an acknowledgment of the potent force of the profession in furthering all those co-related activities which lead to better housing conditions, improved educational facilities, safer working and playing places, better arranged cities and more orderly living.

The Chairman of the Institute Committee has, in reading the proof sheets of the Journal each month, marked those articles or notices which seemed likely to prove of especial interest or value to certain magazines, newspapers or other publications, including, in some instances, those classed as "popular." A sufficient number of reprints has then been ordered to send one with a letter to the special editor or publisher selected, unless the publication was on the "exchange list" of the Journal, when a letter only would suffice.

When there appear articles of exceptional merit, like that in the "Saturday Evening Post" for October 4th, entitled "Throes of Building Committees," that in the "Deline-

ator" of November on "Why Consult an Architect—and Now," or that in the Boston "Herald" on "The Architect," the Chairman asks all sub-committees to bring them to the notice of Chapter members that they may see for themselves what is being done by such non-technical publications toward informing the public, and that they may encourage them by writing letters of appreciation and comment. Even the humorous weeklies have begun to find the architect an object for the shafts of satire, which indicates, at least, that he is being observed.

At a combined meeting of the Committee with the Committee on Publications, the suggestion was made that one or more forms of postal cards be issued illustrating the historical Octagon House in Washington with an appropriate legend describing it as the home of the American Institute of Architects. If found practicable, the cards will be published for the use of the members and the public alike.

Toward the close of the year the Committee learned with regret of the resignation of Secretary Brown from the Committee. As this necessitated a change in membership, the President decided to increase the number of members. This Committee now consists of Frederick L. Ackerman, Carl F. Gould, Eleazer B. Homer, Albert Kelsey, Francis J. McDonnell, Arthur H. Scott, and George Worthington, in addition to Frank C. Baldwin and the Chairman of the original Committee. Nearly all of the appointees are chairmen of their local sub-committees and are thoroughly conversant with what has been accomplished through such committees.

The public, as well as the profession, has long since become quite familiar with the fact that the 47th Convention was to be held in New Orleans in December—more notices having appeared this year in advance of the Convention than ever before during and after the Convention. The various Chairmen and others prepared notices for the press and other publications and distributed hundreds of copies of the official program, all of which tended to insure the accuracy and completeness of the preliminary accounts concerning the Convention. Newspapers in all sections of the country received this information, and, in recognition of the importance which the subject warranted, published it to an extent which has surely stimulated attendance on the part of architects, and which will increase the educational value of the Convention by inciting a general discussion of its proceedings.

We desire to thank the President and other officers and all those Chairmen and members of sub-committees who have so loyally helped us in carrying forward our work. We are confident that these members can be counted upon to counsel and assist those who will take up the work where we leave off. After all, one of the functions of the Chairman of each of these Committees is to originate activities for and to expand the usefulness of all individual members. He should provide them with just the opportunities they are really waiting for and assign them duties which they, as important and indivisible units of

our great Institute, are eager and competent to perform.

He should search the archives of his mind for interesting facts, and should have the faculty of recognizing the value of others when he sees or hears them. And he must not keep them to himself. He should instantly disseminate them in channels of his choosing that their advantage may be multiplied to the greatest possible extent.

If he enters upon his work with an unbounded enthusiasm, it will surely become contagious and will be an inspiration to all.

We have such a task before us in educating the public to a fuller appreciation of the aesthetic and economic value, to the client and to the community, of a good architect's services that we must constantly present the subject in all its phases where the great public can see it. By this means, as well as through our work itself, we can bring about a recognition of the decided advantage, not to say the necessity, of employing an architect for all work, great or small, within the sphere of the profession.

Chairmen of sub-committees in each of the Chapters, in co-operation with the Secretaries and other officers, can see that the activities of the Chapters are more fully recorded, distributing the addresses of Presidents, extracts from reports of Secretaries, of Committees, etc., to the Journal and to newspapers and non-technical publications; can arrange for wider distribution of the Journal; can arrange with others to prepare special articles and publish and distribute them; can arrange to have papers read at public and semi-public meetings, also to have lectures on architecture and architectural practice and city planning delivered before composite audiences in public libraries, before Civic Associations, Y. M. C. A.'s, Builders' Exchanges and many other bodies. They can arrange to have pictures illustrative of the finest examples of architecture hung in all public schools and to place therein reproductions of the best paintings and sculptural work. They can write to the newspapers and popular publications correcting any erroneous statements, calling attention, when buildings are illustrated without mentioning the architect's name, to this omission, congratulating the publishers when names are mentioned. The opportunities surround us on all sides. What we must do is to see the need to take advantage of them. That is what is expected of our Committee and of its sub-committees, but to do this we must seek and secure the co-operation of every officer and member of every Chapter in the American Institute of Architects.

In doing this we will be serving one of the ends for which our Committee has been created; namely, "to instruct the public on matters pertaining to architecture so that the general level of the public taste may be elevated and a demand for a higher standard of design and better type of construction shall result."

Respectfully submitted by

FRANK C. BALDWIN,

D. K. BOYD, - Chairman.

(Of Committee before it was so recently enlarged.)

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This issue—the regular Annual Building Report Number of the Guide—offers manufacturers who supplied material and equipment, decorators, furnishers and contractors who did work on this notable new hotel, a splendid opportunity to make known to the trade the character of their work.

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PHILADELPHIA, PA., JANUARY 7, 1914.

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Editorial Comment

We all know just what 1913 meant to us. Our books have been balanced for the year, our outstanding obligations reckoned up, our claims figured and assets inventoried. We know to a penny just what gains we have made over 1912—what increase, if any, has found its way into our running expenses, what improvements we have been able to bring about in our methods and systems of doing business. If this annual audit of our affairs has been done with business-like thoroughness we know, also, just where to place a finger on the weak points in our organization. How, then, are we facing 1914?

Is it with a firm resolve to repair these weak spots, to strengthen and better our system throughout, to develop a larger efficiency and a greater capacity, to so harmonize and co-ordinate our resources as to secure a higher average of intensive team work in every channel of our affairs—to so manage that 1914 will record a measurable advance over the year just closed, and that a considerable number of the innovations we have been planning for a business life time shall have been adopted and made a part of our workaday routine or—shall we repeat during 1914 the mistakes, the errors, the bad technique that we were secretly ashamed to own, were disagreeable features of our review of the year just ended, deferring to still other years yet to be the essential, if minor improvements we have long had in mind?

How many of the men who head big business enterprises give a more than perfunctory heed to the motto "Do It Now!" so conspicuously displayed above their desks. Take the always important question of advertising, for example. As a good business man you have probably realized for some time past that your firm should be represented by a standing advertisement in your home trade paper, "The Builders' Guide." There has been no question in your mind regarding the possible benefit to your house of maintaining such an advertisement. You know where "The Guide" goes, where it is read, by whom it is read, where and how its influence as a trade organ reaches and operates. You know, too, about what the cost of such an advertisement as you have had in mind would be. None of these considerations has been a factor in holding back the carrying out of this particular improvement in your business system. The fact is that in the rush and hurry of larger and more pressing items this one item has been overlooked. You have felt that you did not have the time to take the subject up with that measure of consideration you were disposed to give to it, and so it has been deferred and postponed, permitted to lag and lie dormant until in going over the happenings of 1913 in retrospective mood you are admonished with a little start that another year has come and gone with the long-

planned advertisement still in the limbo of things yet to be. Just here is where your "Do It now!" motto ought to get in its work. Make it one of your resolutions to carry an "ad" in "The Guide" during 1914. Prepare the "ad" now. Make your contract for space without delay and thus reduce by one the number of things you meant to do and have neglected to put into execution.

As with advertising so with other things. Fortify those weak places now while the spirit of resolution is in the air. Go after the leaks in your business with a fixed determination to eliminate them, organize a check system to prevent their recurrence, a system under which responsibility for future derelictions of the kind may be fixed and certain.

Make 1914 a year of evolution to better things material and administrative, so that when 1915 dawns above the horizon you may look backward over the events of the year with the feeling that you have bettered and strengthened and made more plastic to your ideals the mechanism of your business organization.

And—"Do It Now."

* * *

How many business men keep, so arranged and classified as to be accessible at a moment's notice, the catalogues, price lists, discount lists, descriptive booklets and other trade literature to refer to which they have frequent and common occasion during the year. And yet the classification of this data is so easy that one is tempted to marvel why such a system of caring for it is not in more general use. Try it this year and learn for yourself how much needless fretting and fuming it will spare you when something in the booklet line is needed in a hurry. Unless we are very much mistaken you'll be tempted to write thanking us for the suggestion.

* * *

With the present issue "The Builders' Guide" enters upon the twenty-ninth year of its existence as a weekly trade publication devoted to the advancement of architecture, building, building material and equipment. Under its present management "The Guide" has made greater strides within the past five years than were made during the entire quarter century of its existence under its former management. One of the reasons for this gain in readers, in advertisers and in influence within its field of endeavor has been the fact that the present management has striven to at all times keep "The Guide" in the forefront of periodicals of its kind. The material for its pages has been selected with a view to placing before its readers every week the most important themes under discussion in the trade. Its trade

news has aimed to give in a brief and condensed form everything of note in the week's news bearing upon trade and professional doings. Its architectural information has sought to embrace the most advanced ideas of the ablest men in the profession on questions of large professional moment. Its editorial comment has tried to touch informingly and without fear or prejudice upon such questions of trade and professional interest as seemed to require a word whether of criticism or approval. The construction news pages of "The Guide" are among the best to be found in any periodical known to the trade. While somewhat limited as to scope, they present news of the most absolute accuracy. There is no newspaper rumor in these pages, no third-hand information, no idle gossip. Every item is had direct from the architect in charge, every fact carefully verified from the drawing of plans down to the final award. These pages were extended with the issue of December 31st to include the same careful and authoritative service from southern New Jersey, embracing everything south of Trenton. Early in the new year now opening it is planned to include a service equally efficient and accurate, covering Delaware, Maryland and the District of Columbia. The editorial pages of "The Guide" will keep pace with these in presenting matter of trade and professional interest. A feature to be added to the news pages in the near future is a department which will be headed "Men Worth Knowing," presenting sketches of the little known men behind big industries associated with the building trade. Each sketch will be accompanied by a good half-tone portrait of its subject, supplying a series eminently worth preserving for future reference. These sketches will not be the usual laudatory "boosts" commonly associated with matter of this kind, but carefully written biographical estimates of the men who are making and who have made Philadelphia's fame as the manufacturing center of all America. To sum up, "The Guide" will be bigger and better in every department in 1914 than it has been in 1913. The aim is to-day what it was in the beginning, to provide Pennsylvania with a building and architectural journal as free from technical flubdub as from current journalistic flamboyancies. We cannot in all fairness close this little essay upon our future intentions without including a word of gratitude to the friends, readers and advertisers alike who have so loyally stood by us in the past. Nor may we omit a word of grateful appreciation to our friends in the architectural profession to whose helpful interest and every-ready co-operation we owe a debt not easily repaid. To each and all of these, our friends and co-workers, we beg to extend the season's compliments. May we wish them, in the words of a card in our New Year's mail, all the success in life that one friend can wish another.

No one suffers from a mean disposition like the fellow who has one.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**Governor John K. Tener, of Pennsylvania, writes President Moore that the Pennsylvania Exposition Commission has appointed Henry Hornbostel, who designed the Oakland City Hall, the architect of the Keystone State Building at the Panama-Pacific International Exposition.

**The Biddle Hardware Company and the Supplee Hardware Company, two old Philadelphia hardware concerns, have consolidated, making one of the largest hardware combinations in the country. The firm will be known as the Supplee-Biddle Hardware Company and will include all of the present officers and employees of the two firms. The officers of the new concern are: Chairman of the Board, Charles M. Biddle; President, James E. Baum; Vice-Presidents, Charles M. Biddle, Jr., Alfred Klein and J. S. Bonbright; General Manager, Robert Biddle, 2d; Treasurer, E. S. Fogg; Secretary, Edward Knight; Auditor, Richard Baum, and Assistant Secretary and Assistant Treasurer, George S. Spence. The present home of the company at Fifth and Commerce streets, Philadelphia, will be enlarged.

**J. W. Janvrin, who for a number of years has been manager of the promotion department of the Standard Varnish Works, New York City, will, after January 1st, 1914, be district manager of the jobbing department, with headquarters at 120 Tremont street, Boston, Mass.

**Miss Janet Scudder, the sculptor, whose "Young Diana" and "Little Lady by the Sea" attracted attention at the recent exhibition of her work, has been selected by the National Art Commission appointed to beautify Manila to design a memorial to the late Daniel Hudson Burnham, the "Creator of the Chicago World's Fair," who was Chairman of that body. The memorial was to be neither a bust nor a portrait, but decorative, with an inscription, so Miss Scudder decided upon a fountain, with an inscribed base. It will be placed in Burnham Green, part of the famous Luneta Park, facing Manila Bay, the most attractive spot in the Philippine capital.

**James G. Hill, architect, of Washington, D. C., died at his home Sunday, December 21, aged 72 years. He was formerly supervising architect of the United States Treasury Department, and during his administration designed and superintended the erection of the Bureau of Printing and Engraving, the Government Printing Office and many post office buildings.

**The Architectural League of New York will hold its annual exhibition in the Amer-

ican Fine Arts Building, 215 West Fifty-seventh street, February 8 to 28.

**The American Mason Safety Tread Company, of Lowell, Mass., was awarded a gold medal at the International Exposition of Safety and Sanitation, held under the auspices of the American Museum of Safety at the Grand Central Palace, New York City, December 11 to 20, 1913.

**The tenth annual convention of the National Association of Cement Users will be held at Chicago, Ill., February 16-20, 1914.

**The members of the National Builders' Supply Association will hold their annual convention February 17 and 18 with headquarters at the Hotel La Salle, Chicago, Ill. The first afternoon of the convention will be left open for a general visit to the Cement Show, which will occur in the Coliseum at that time. If the plans of the Board of Directors meet with the success now expected small dealers will be an important factor in the coming convention. As the dues of the association have been reduced it is expected that this will be the means of bringing many dealers into the organization who heretofore have felt that they were not doing sufficient business to justify them in affiliating with the supply association.

**The eleventh annual dinner of the Society of Municipal Engineers of New York City will be held January 10, 1914.

**The Metropolitan Hardware Association will hold its annual dinner at the Hotel Astor Tuesday, January 20, 1914. H. A. Cornell, 123 Court street, Brooklyn, is chairman of the dinner committee.

**The annual convention of the National Building Trades and Employers' Association will be held in Louisville, Ky., January 21-23 next. Officers of the National Association are: President, Herbert J. West, West Construction Company, Baltimore, Md.; Secretary, I. H. Scates, Secretary of Baltimore Builders' Exchange.

**The Amended Building Code was not put on its final passage in the Board of Aldermen at New York last week, and is now dead, beyond question, as all pending legislation expires with the present administration. Thus another year's work on the part of the Building Committee, together with the labors of the Advisory Committee and of the Joint Committee and of many other committees appointed by business and civic societies and interests to aid in the work of revision (not mentioning a city appropriation of \$20,000) has gone for nothing. True, the Herbst code, like the Kenneale and other revisions, may be useful as a book of reference to future

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revisers, but very body who has ever had anything to do with code-making is weary of the subject and despairing of ever getting a complete code through the Board of Aldermen—and certainly not a specification code.

**The Treasury Department is frequently requested to include in its specifications for the construction, etc., of Federal buildings the requirement that the successful bidder for work shall use a particular material, fixture, appliance, or method, or that certain of the materials and labor to be used in the construction of the buildings must be obtained in the localities in which they are to be erected. The department, according to a circular issued by Secretary McAdoo, is compelled to deny these requests for the following reasons:

The law requires that proposals for the construction of Federal buildings shall be solicited by public advertisement unless the public exigencies require the immediate delivery of the articles or performance of the services sought to be obtained. The obvious purpose of the law is to secure through broad competition the lowest terms obtainable. This object would be defeated if bidders were restricted to the products of any particular State or locality, or if the bidding were similarly restricted to residents of any particular section of the country.

The department always declines to indicate by name or brand the particular materials, fixtures, appliances, methods, etc., to be used, but specifies the grade of both materials and labor. Bidders are free to procure these anywhere obtainable, provided they meet the specification's requirements.

Nothing in the specifications for the different buildings prevents local contractors from bidding on the work. Nor is there ever anything in the department's specifications which would prohibit a successful bidder residing elsewhere from obtaining his materials

or labor from the manufacturers or dealers and the artisans of the locality in which the proposed building is situated, provided the specification requirements, as to quality, etc., are met.

The department is always gratified whenever local materials and labor are found to answer its requirements, but it cannot undertake to restrict competition by limiting bidders to local materials and labor. Whenever the department has information concerning an available local stone or face brick, it endeavors to draw its specifications so that pro-

posals may be submitted on these materials, but cannot do so to the exclusion of materials of the same class produced elsewhere.

Those interested in the development of local industries or the employment of local labor are always free to bring the same to the attention of the successful bidder for a particular Federal building. Whenever materials, etc., the use of which it is sought to have the department specify or require, are submitted for approval by a contractor for a Federal building, they are invariably given due consideration.

LOGIC OF THE FOSTER SYSTEM OF ROOFING AND WATERPROOFING, FOR ANY CLASS OF WORK PERTAINING TO THE USE OF BITUMINOUS MATERIALS

Experience has proven that in order to erect any class of building construction, it is possible to obtain a higher grade of efficiency at a minimum cost of construction by following a system in designing and constructing different lines of work that enter building construction. The importance in following this idea in roofing and waterproofing work is as great, if not greater, than any other class of work. In the number of years that we have advocated the use of the Foster System, we have been called upon to examine numerous work of this character, consisting of all classes of materials and construction, that were not giving satisfaction; and in most every instance we have found the trouble due to faulty construction and the use of a material not adapted for the work, and in every case where we have reconstructed this work we have succeeded in overcoming every defect in material and construction that had existed.

The most essential reasons for this unsatisfactory work are due to the fact that there are numerous grades of bituminous cements, saturating compounds, and felts and fabrics entering into the construction of this class of work. Some of these materials possess merit and are of the highest grade of their respective kind; other compounds are absolutely worthless under any conditions, being cheap substitutes for higher grade materials. Unfortunately for the architect and engineer, it is only possible to obtain merits and proper uses of these materials through years of practical experience; chemical analysis, melting points, etc., are all practically the same with each bituminous product, and in some instances those worthless for roofing purposes are manipulated in such a manner by the manufacturer as to show the highest chemical analysis.

In writing specifications for this class of work, it has been the custom of engineers and architects to use specifications of some man-

ufacturer whose material seems to him to possess most merit.

Here is where the greatest danger lies, as the manufacturer has only his respective class of material to offer you, which will be used in any class of work that you may have in mind. Regardless of the merits that this material may possess for some class of work, it may be, in that particular work, possible to obtain greater efficiency by the use of an entirely different class of material. There is considerable variation in the cost of these different classes of materials, due to the source of supply and cost of refining, and it very often occurs that the lower priced material is better adapted to the work than the higher priced. Of course, this condition can also be reversed. There are also various methods of construction which make it absolutely necessary to adopt different construction for each class of work.

The Foster Method means that we go into the matter very thoroughly and estimate on your roofing, waterproofing, or dampproofing with a detailed specification as to the kind and grade of materials, quantity and manner of construction. We will also furnish a guarantee that protects you against defects both as to material and construction. In this manner only is it possible to obtain the proper class of work at a minimum cost.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

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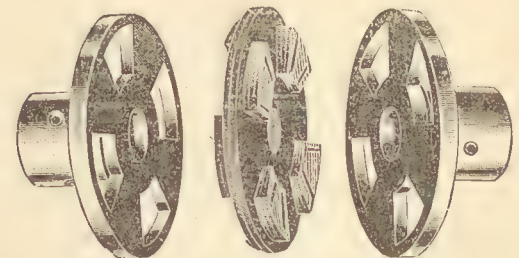
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REPORT OF THE COMMITTEE ON CIVIC IMPROVEMENTS

To the American Institute of Architects.

Your Committee on Civic Improvements is unable to report a large measure of accomplishments during the past year, unless the endeavor to determine what the proper field and scope of its activities should be, and the effort to arouse interest in the subject committed to its care, may be counted as such.

Before one may reap in a new field, the ground must be cleared, the soil prepared and the seed sown; and our field is so large that we believe it will take the organized efforts of several years before we can count upon an appreciable harvest:

Organized effort; that is to say, unorganized effort is useless, and therefore the first thing to do is to perfect an organization that will make effort fruitful, build a machine to do the work well.

Our Committee, like the Committee on Public Information and the Committee on Competitions, covers the whole country and should be organized on similar lines. There should be a large membership distributed in groups in geographical centres corresponding to the territory of the several Chapters; sub-committee is an inexact term, for sub-committees usually deal with different aspects of the same subject. These groups should be related to each other and to a central group which corresponds to our present Committee. Each member of the central group should have charge of a certain general territory, as, for example, a man in Boston in charge of the Eastern States, responsible for the work of the Chapter groups in his territory.

The real work lies in every village, town and city in the country, where interest in our subject must be aroused and maintained. It is obvious that a mere Institute Committee of seven men as at present, two in New York, and one each in Philadelphia, Washington, Chicago, Omaha and Seattle, cannot cover the ground and can accomplish but little beyond an annual report dealing in glittering generalities and recounting what other organizations, agencies or individuals have done.

At the present moment the architects of the country are in the humiliating position of mere followers in a movement where they should be the leaders. Publicists, sociologists, lawyers, dilettanti of various classes—these are the people who have been taking the lead.

The architect should be in the van. His training fits him for the post. He is accustomed to controlling lines of circulation, to producing convenient and beautiful and orderly arrangements of lines, planes, and forms. He frequently needs the corrective influence of the layman, who has another point of view. And yet it is perfectly possible to conceive of a thoroughly satisfactory solution of any civic problem in which the architect acted entirely alone. It is equally impossible to conceive of the layman solving any such problem without his aid.

In every community the architects should be the leading and guiding spirits in civic improvement. We do not all live in large centres of population, even though many of us may have our offices there. But there are hundreds of us living in towns of ten and twenty thousand souls and less, in which at first blush the opportunities for civic improvement seem restricted. There is no chance for a civic centre, but there are telegraph poles on Main street and trolley poles and wire ruining the trees on Maple avenue; the condition of the streets around the railroad station is disgraceful. It is also civic improvement to try to better such conditions; not much of a chance to show what we know about axes and vistas and magnificent public squares; just a humble necessary duty for men to perform who are supposed to be votaries of beauty and order.

It is lonely business crying aloud in the wilderness, but isolation is unnecessary; the means of moral support could be at hand. — the public-spirited architect we are assuming knew that in the city where his office is, is a committee of the Institute willing and anxious to help him in his efforts to better his town and stir up the apathetic town council or citizens; if it could help him to arrange for lectures on the subject, illustrated in an interesting and inspiring way; if it could help him to data showing what some other similar town had accomplished along cognate lines, such a committee would amply justify its existence. Imagine, then, many such committees, all linked together, their efforts coordinated; not all of them doing imposing, impressive things, but all doing useful things, the things that lie so close to us that we can't see them, fixed as our eyes are on stately dreams of civic centres.

This is what we mean by organized effort. As a first step toward organization, your Committee, through its Chairman, sent out a circular letter to the Secretaries of all Chapters urging:

1. The establishment of Chapter Committees on Civic Improvement where none existed.
2. Co-operation with the Institute Committee.
3. Activity in the several Chapter localities.
4. The establishment of sympathetic relations between the committees and municipal governments.
5. A subscription by the Chapters, according to their means, to found a library of books, slides, and plans, to be housed in the Octagon, as proposed by Mr. Willcox, of the Washington State Chapter, last year, recommended in the report of the committee, and approved by the Convention.

All Chapters have responded except the following: Buffalo, Central New York, Cincinnati, Connecticut, Dayton, Kansas City,

Michigan, Southern Pennsylvania, St. Louis, Washington, D. C., Wisconsin, and Worcester.

Of the others it is found that the following had similar committees in existence: Atlanta, Boston, Brooklyn, Cleveland, Illinois, Iowa, New York, Oregon, Philadelphia, Pittsburgh, Rhode Island, San Francisco, Washington State.

In the Colorado, Louisville, and Minnesota Chapters Committees were at once appointed and co-operation promised; and in the Baltimore, Indiana, Louisiana, and Southern California Chapters interest was expressed, and the belief that the Chapters would soon appoint committees.

No definite responses in connection with the proposed library were received, except from the Washington State Chapter, which, some time ago, offered a set of slides, provided that the library be properly administered and so become of value to the Institute, and except from New York, which has appropriated fifty dollars toward the foundation of the library.

The Committee hopes that the Chapters will assist in this foundation. A collection of slides that may be loaned to illustrate lectures, and for use in campaigns for civic betterment; a collection of plans of foreign as well as American cities, on a large scale, and books of reference on all matters connected with city planning, available to all members of the Institute, would be of great value.

Your Committee hopes to bring about the appointment of similar committees in every Chapter.

As another step toward arousing interest in the subject the Chairman has communicated with the Secretary of the American Federation of Arts and has received assurance that if she is provided with lectures accompanied by lantern slides, she will be glad to circulate them as a part of the Federation system.

This should be a part of the Committee's work for the coming year.

Another part of its work should be the foundation and administration of the circulating library proposed last year by Mr. Willcox.

The Journal of the Institute may be relied upon to further our work. A department devoted to Civic Improvements, edited by Dr. Carol Aronovici, has been established, and we may look forward with confidence to the day when the Journal will be the ultimate authority in all matters executive with this subject.

As you will have observed, your Committee has barely made a beginning; but we believe we are laying the foundation for one of the greatest and most useful functions of the Institute.

Respectfully submitted,

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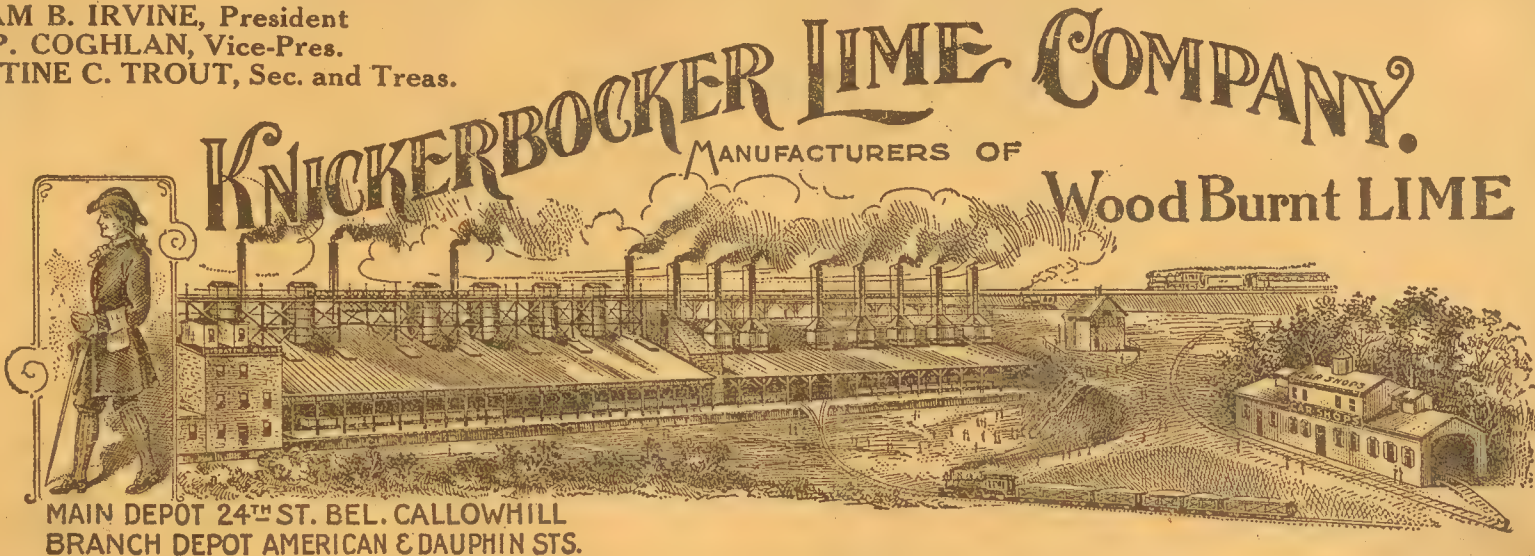
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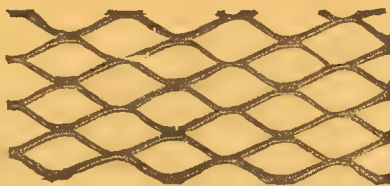
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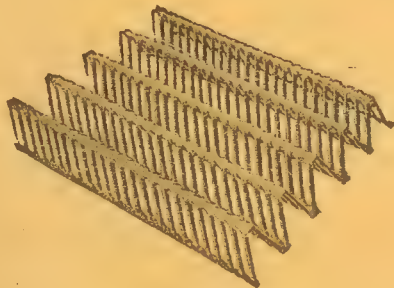
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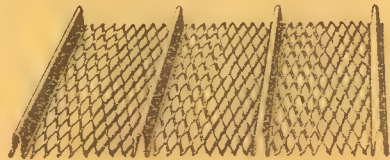


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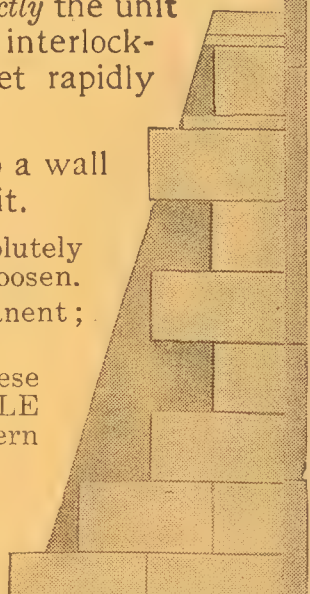
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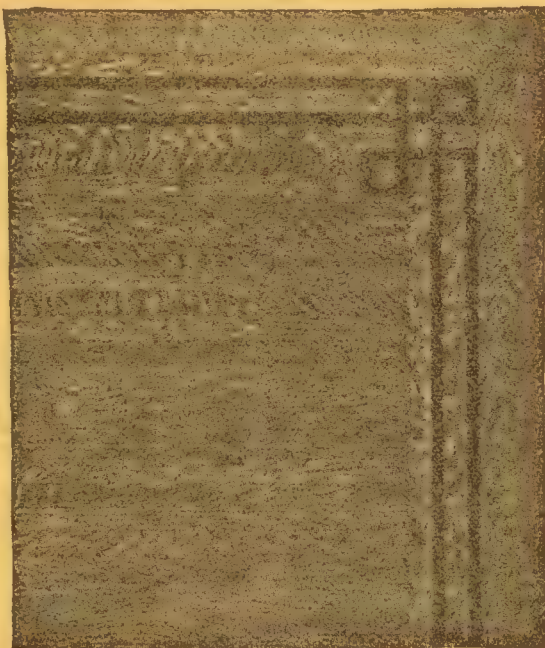
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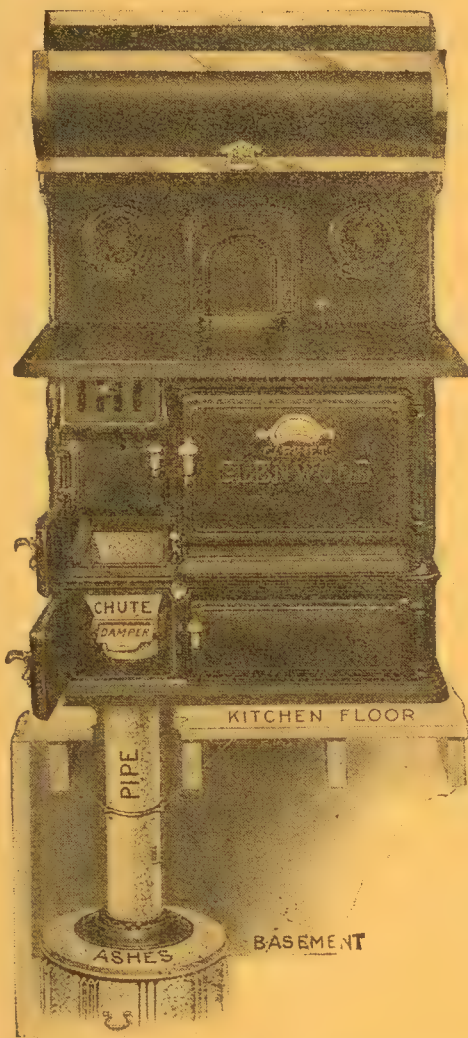
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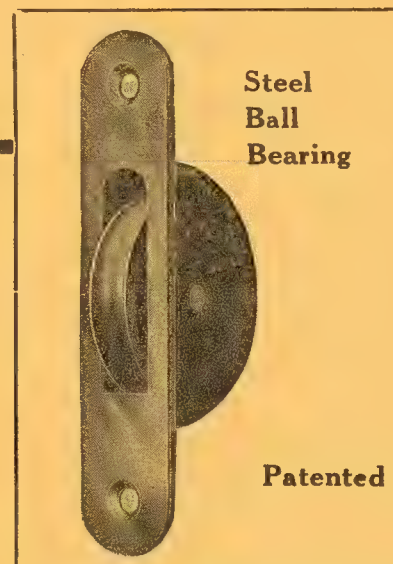
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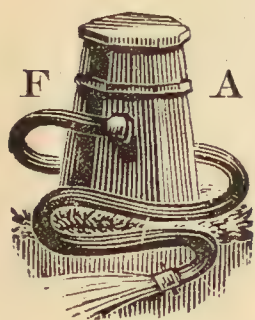
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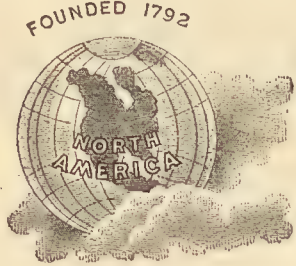
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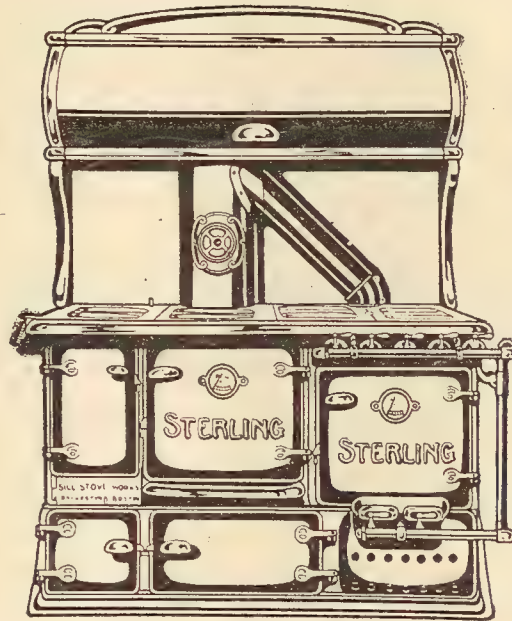
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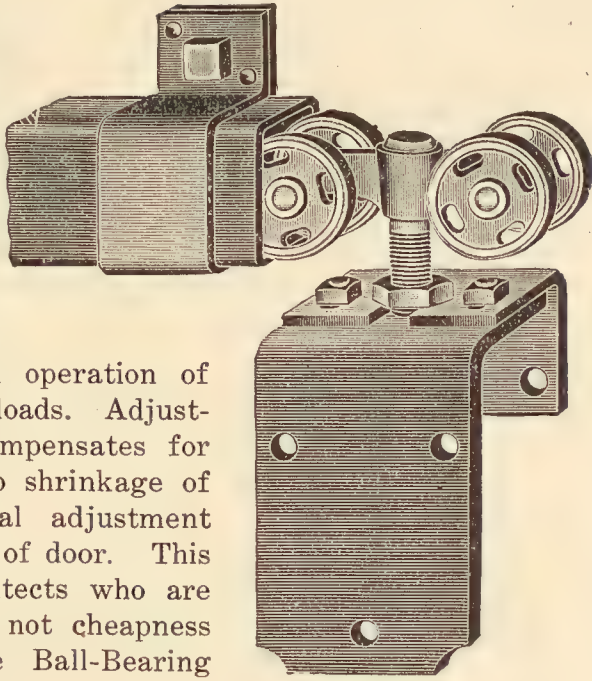
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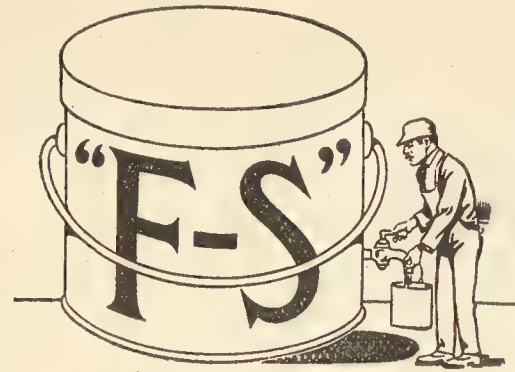


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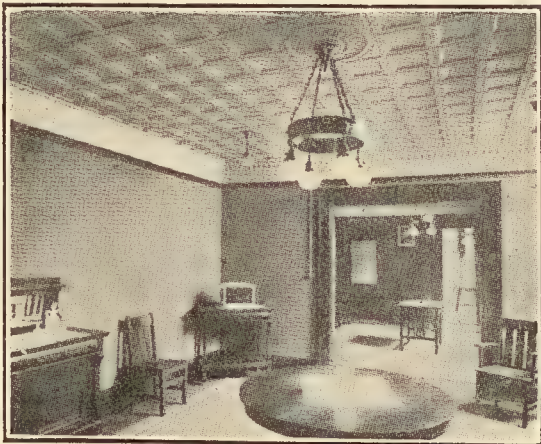
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Vol. XXIX., No. 2.

PHILADELPHIA, WEDNESDAY, JANUARY 14, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Industrial School, White Ferry, Pa. Architects, Ballinger & Perot, 1211 Arch street. Owner, Bishop M. J. Hoban, Scranton, Pa. Brick, 2 stories. Plans in progress.

Church, Frankford, Philadelphia. Architect, H. G. Hammer, Glenside, Pa. Owners, Mater Dolorosa Italian R. C. Church, care of Rev. Cosmos Bruni, 4330 Paul street. Stone, 1 story, 50x125 feet, slate roof. Plans in progress.

Residences (75), Thirteenth and Courtland streets. Architect, private plans. Owner, H. P. Schneider, York road and Erie avenue. Brick, 2 stories, six and eight rooms, slag roof, hot-air heating. Plans in progress. Owner will take sub-bids in two weeks.

Store and Residence, 4157 Germantown avenue. Architect, private plans. Owner, F. J. Donnelly, 4215 Germantown avenue. Brick, 2 stories, 16x55 feet, slag roof, electric light, steam heat. Owners taking bids due January 14th. The following are figuring: H. P. Schneider, York road and Erie avenue; G. C. Fossell, 128 East Cheltenham avenue; H. E. Swoger, 4435 North Uber street.

Residence (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building. Owner, William Fronheiser, Pottstown, Pa. Brick, 2½ stories, electric lighting, hardwood floors. Plans in progress.

Y. M. C. A., Coatesville, Pa. Architects, Shattuck & Hussey, 19 South La Salle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick and stone, 4 stories, 95x144 feet, slate and slag roof, electric light, steam heat, marble interior, water-proofing, expanded metal. Architects taking bids due January 22nd. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; J. E. & A. L. Pennock, Land Title Building; Charles McCaul Co., Tenth and Sansom streets; Roydhouse-Arey Co., Fidelity Building.

Garage and Hall, South and Water streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, John Cassidy, on premises. Brick and concrete, 3 stories, 30x40 feet, slag roof, electric light, steam heat, metal sash and frames. Architects taking bids due January 17th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; Smith-

Hardican Co., 1606 Cherry street; J. B. Flounders, 1329 Arch street; Loos & Dothard, 1438 South Penn Square; A. Brassi, 1736 South Sixth street; James Connor, 2428 Frankford avenue.

Farm Buildings, Valley Forge, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, John R. K. Scott, Morris Building. Stone and frame, 2 stories, consists of chauffeur's and gardener's cottages and garage, shingle roof, electric lighting. Plans in progress.

Garage, Narberth, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, name withheld. Stone, 1 story, slate roof, electric lighting. Plans in progress. Architect will take bids in about two weeks.

Hospital (alt. and add.), Wilmington, Del. Architects, Thomas, Churchman & Molitor, 1309 Walnut street. Owner, Delaware Hospital, care L. P. Bush, Wilmington, Del. Brick, 3 stories. Architects selected. Plans about to be started.

Liberal Arts Building State College, Pa. Architects, Day & Klauder, 925 Chestnut street. Owner, Pennsylvania State College, State College, Pa. Brick and Indiana limestone, 2 stories, 54x111 feet, slag roof, Plenum System of heating, electric lighting. Owners taking bids due January 26th.

Garage, Washington, D. C. Architects, Ballinger & Perrot, 1211 Arch street. Owner, name withheld. Brick, fire-proof, 2 stories, 40x105 feet, gasoline tanks and pumps. Plans in progress.

Residence, Cynwyd, Pa. \$9,000. Architects, Savery & Scheetz & Savery, Stephen Girard Building. Owners, name withheld. Frame, 2½ stories, 40x25 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architects will take bids in about ten days.

Cottages (2), Claymont, Del. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Delaware Industrial School for Girls, Claymont, Del. Stone, 2½ stories, slate roof, electric lighting, steam laundry. Plans about completed. Architects will take bids in ten days.

Residence, Overbrook, Philadelphia. Archi-

itects, Baily & Bassett, 421 Chestnut street. Owner, Mrs. C. L. Duncan, Drexel Apartments, Overbrook. Stone and half timber, 2½ stories, 60x30 feet, wings, 30x30 feet, tile roof, hot-air heating, electric lighting, hardwood floors. Architects taking bids due January 15th. The following are figuring: Milton W. Young, Overbrook, Philadelphia; H. H. Burrell, 1204 Chancellor street; H. L. Brown, 1714 Sansom street; Frank H. Mahan, Ardmore, Pa.; Alfred James, Bala, Pa.; John Stevens, Wyncote, Pa.

Residence (alt. and add.), Cynwyd, Pa. Architects—Savery, Scheetz & Savery, Stephen Girard Building. Owner, S. H. Croft, on premises. Architect has received bids.

Y. W. C. A., 5820 to 24 Germantown avenue. Architects, Harris & Rush, 130 South Fifteenth street. Owner, Young Women's Christian Association, 5503 Germantown avenue. Brick, stone and terra cotta, 3 stories and basement, 58x162 feet, asbestos roof (heat and light, reserved), hollow tile partitions, dumb waiters, water-proofing, metal lath, enamel bricks, composition floors. Architects taking bids due January 21st. The following are figuring: W. J. Gruhler, 219 High street; Thomas M. Seeds, Jr., 1207 Race street; Pringle Borthwick, 8018 Germantown avenue; W. C. Wright, 22 Harvey street; Thomas Little & Sons, 1713 Moravian street; Roydhouse-Arey Co., Fidelity Building; Doyle & Co., 1519 Sansom street; George & Borst, 277 South Eleventh street; H. E. Batton, Tenth and Sansom streets; A. P. Fraim, 319 Market street; F. L. Hoover & Sons, 1033 Cherry street; Charles McCaul Co., Tenth and Sansom streets.

Church, Darby, Pa. \$30,000. Architect, George E. Savage, Witherspoon Building. Owner, Trinity Lutheran Church Darby, Pa. Stone, 1 story and addition to Sunday School building and new manse, slate roof, steam heating, electric lighting. Plans in progress.

Church, Fifty-seventh street and Wyalusing avenue. \$25,000. Architect, George E. Savage, Witherspoon Building. Owner, Fifth United Presbyterian Church, care of Rev. R. W. Burnside, 642 North Fifty-sixth street. Stone, 1 story, also addition to Sunday School

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Hospital, Carlisle, Pa. Architect, E. F. Bertolett, West End Trust Building. Owner, Carlisle Hospital, Carlisle, Pa. Stone, 3 stories, 75x125 feet, slate roof, steam heating, electric lighting. Plans in progress. Architect will take bids in about two weeks.

Residence, Royersford, Pa. \$15,000. Architect, E. F. Bertolett, West End Trust Building. Owner, Y. C. Freed, Royersford, Pa. Stone, 2½ stories, slate roof, steam heating, electric lighting, hardwood floors. Owner is taking bids.

Hospital (alt. and add.), Broad and Wolf streets. Architects, Stearns & Castor, Stephen Girard Building. Owner, Methodist Hospital, on premises. Brick and stone, 2 and 3 stories, slag roof (heat and light, reserved), marble interior, expanded metal. Architects taking bids due January 14th. The following are figuring: F. E. Wallace, 1210 Sansom street; H. E. Baton, Tenth and Sansom streets; J. R. Wiggins, Heed Building; J. G. Doak & Co., Crozer Building; B. Ketcham's Sons, 1029 Brown street; F. J. Boas, 201 North Broad street.

Hotel and Store, Seventy-third street and Woodland avenue. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, James S. Kane, on premises. Brick and stone, 3 stories, 30x94 feet, slag roof, electric light, vapor heating. Architect taking bids due January 20th. The following are figuring: Burd P. Evans Co., Thirteenth and Wallace streets; William R. Dougherty, 1610 Sansom street; H. L. Brown, 1714 Sansom street; A. Whitehead, 1624 Latimer street; Thomas C. Trafford, 1613 Sansom street; W. J. Irwin, 5927 Kingsessing avenue; Frank Hall, Seventy-first street and Greenway avenue.

Home (alt. and add.), Twenty-third and Brown streets. Architect, private plans. Owner, Northern Home for Friendless Children, on premises. Brick, 2 stories, 12x25 feet, slag roof (electric light and heat, reserved), metal lath, marble interior. Owner has received bids.

Office Building, Sixteenth and Cherry street. Architect, H. E. DeHoff, 48 North Sixty-first street. Owner, Edward Flood, 1802 Market street. Brick, 1 story, 10x20 feet, slag roof, electric light, steam heating. Architect has received bids.

Store Building (alt. and add.), 29 North Second street. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Harry Fleigelman, on premises. Brick, 3 stories, slag roof (heat, reserved), metal frames and sash. Architects taking bids due January 14th. The following are figuring: Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street; Samuel Schultz, 923 East Moyamensing avenue; A. Whitehead, 1624 Latimer street; H. Reusswick, 137 North Tenth street.

Residence and Garage, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, F. A. Shick, West Bethlehem, Pa. Hollow tile and plaster, 2½ stories, 44x54 feet, slate roof, electric light, oak floor (vapor heat, reserved). Owner has received bids.

Theatre and Dance Hall, Eighth and Latona streets. Architect, Charles E. Oelschlager, Harrison Building. Owners, name withheld. Brick and terra cotta, 2 stories, 37x116 feet, slag roof, steam heating, electric lighting. Plans completed. Architect ready for bids.

Smoke, Washing House and Machine Shop, Ninth and Brown streets. Architect, William Hunter, Reading Terminal. Owner, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick, steel and concrete, 2 stories. Plans in progress.

Theatre, Fifty-second and Warren streets. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owners, Hammond Realty Co., Fifty-second street and Lancaster avenue. Brick, 1 story, 50x100 feet, slag roof, electric light, steam heat. Plans in progress. Owners will take bids.

Hall and Store Building, Fifty-second and Market streets. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owner, M. Didabian, Fifty-second and Market streets. Brick, 3 stories, 30x70, slag roof. Plans in progress.

Loft Building, Randolph and Vine streets. Architects, William Steele & Sons Co., Sixteenth and Arch streets. Owner, C. C. Kempton & Sons, 320 Race street. Brick, steel and concrete, 6 stories, 75x150 feet, slag roof, electric light, steam heat. Builders, William Steele & Sons, 1600 Arch street, taking sub-bids.

Residence (alt. and add.), Bon Air Farms, Pa. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, Mrs. R. R. Taylor, 3443 Woodland avenue. Stone, 3 stories, shingle roof, electric light (heat, reserved). Owner taking bids due January 13th. The following are figuring: A. Whitehead, 1624 Latimer street; C. White Bros., 5406 Haverford avenue.

Residence, Chester, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Robert Wetherill, Chester, Pa. Brick and plaster, 2½ stories, 30x45 feet, slate roof (heat and light, reserved). Architects

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taking bids due January 16th. The following are figuring: Pomeroy Construction Co., 1609 Ranstead street; H. E. Grau Co., 1707 Sansom street; F. E. Wallace, 1210 Sansom street; R. C. Ballinger Co., 218 North Thirtieth street; Nolan Bros., Chester, Pa.; W. D. Haddock & Co., Wilmington, Del.

Church, Sixtieth and Westminster avenue. Architect, Carl P. Berger, 1418 South Penn Square. Owner, Gethsemane Lutheran Church, care of Rev. J. H. Main, 1225 North Sixtieth street. Stone church, one story, 48x82 feet; Sunday School, 30x60 feet; parsonage, 17x60 feet, slate roofs, steam heating, electric lighting. Plans in progress.

Hotel and Saloon (alt. and add.), Broad and Race streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Peter Braude, Island road and Bartram avenue. Brick, four stories, electric lighting, steam heating. Architect taking bids, due January 19th. The following are figuring: George Pawling Company, Broad and Vine streets; A. Whitehead, 1624 Latimer street; A. Raymond Raff, 1635 Thompson street; E. E. Hollenback, Fifteenth and Race streets; F. Roe Searing, Perry Building.

Residences (48), Forty-first and Spring Garden streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Edward F. Gorman, Fifty-second and Arch streets. Brick, two stories, 16x40 feet, slag roof, electric light, hot water heat, hardwood floors. Owner taking sub-bids in all lines.

Residence, Wynnewood, Pa. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, A. W. Swartz, 4605 Chester avenue. Hol-low tile and plaster, two and one-half stories, 25x35 feet, shingle roof, electric light. Plans in progress.

Store and Apartments (alt. and add.), Fifteenth and York streets. Architect, private plans. Owner, M. Getz, on premises. Brick, three stories, electric light, slag roof, hot water heat. Owner taking bids, due January 14th. Lam Building Company, 1001 Wood street, is figuring.

Garage, 7416 Boyer street, Germantown, Philadelphia. Architects, Ballinger & Perrot, 1211 Arch street. Owner, J. J. McLaughlin, on premises. Stone, one story, 15x23 feet, slate roof. Architects taking bids, due January 16th. The following are figuring: W. C. Wright, 22 Harvey street; Samuel Harting, 20 East Johnson street; W. J. Gruhler, 219 High street; George Sorber & Sons, 18 Harvey street.

Gardener's Cottage, Gladwyne, Pa. Architect, Clyde S. Adams, 1509 Arch street. Owner, Paul Hegenlocher, Gladwyne, Pa. Stone and frame, two and one-half stories, 27x36 feet, asbestos shingle roof, electric light, hot air heat. Architect taking bids, due January 23rd. The following are figuring: F. B. Davis, 35 South Seventeenth street; Milton Young, Overbrook, Pa.; Frank Mahan, Ardmore, Pa.; James G. Driscoll, Hale Building.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Picture Theatre, 1523 and 30 West Cumberland street. \$10,000. Architects, Henon & Boyle, Fuller Building. Owner, W. J. Vernon, Stephen Girard Building. Brick and stone, 1 story, 42x80 feet, slag roof, electric light, steam heat. Contract awarded to John McKenna & Sons, 1032 Race street.

Signal Tower and Battery House, Newtown Junction, Pa. Architect, William Hunter, Reading Terminal. Owner, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick, 1 and 2 stories, 18x31 feet and 16x22 feet, electric light, hot-air heat, slag roof and asbestos shingles or slate roof. Contract awarded to Burd P. Evans Co., Thirtieth and Wallace streets.

Residence, Chester, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Richard Wetherill, Chester, Pa. Brick, 2½ stories, 45x30 feet, wing 29x18 feet, slate roof, electric light, hot-water

heat. Contract awarded to William Provost, Jr., Chester, Pa.

Bridge, Tioga and C streets. Architect, W. E. S. Dyer, Land Title Building. Owners, Baxter, Kelly & Faust, on premises. Steel and wood, slag roof, electric lighting. Contract awarded to A. L. Fretz & Sons, 1222 Chancellor street.

Factory, Royersford, Pa. Architects, E. B. Lewis & Co., Lansdowne, Pa. Owners, Progressive Knitting Mills, Spring City, Pa. Brick, three stories, 102x40 feet, slag roof (heating and electric work reserved). Contract awarded to Barclay White Company, Perry Building.

Bank (add.), Media, Pa., \$6,000. Architect, Louis J. F. Moore, Lansdowne, Pa. Owners, Media Title and Trust Company, on premises. Brick, one story (electric light reserved), steam heat, slag roof, metal lath. Contract awarded to J. B. Flounders, 1329 Arch

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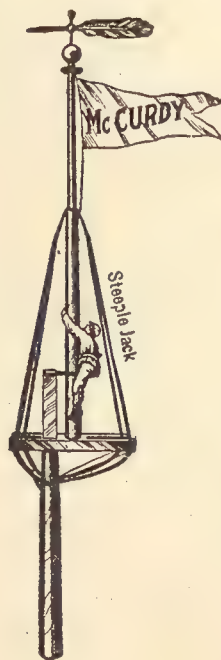
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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

J. P. Wilson (O), 116 Dock street. H. C. Dahl (C), 231 South Eighth street. Cost, \$3,500. Factory, Brick, 3 stories, 14x85 feet. 221 South Second street.

W. O'Loughlin (O), Dobson and Fisk streets. Cost, \$1,600. Dwelling, brick, 2 stories, 14x31 feet, Dobson & Fisk streets.

Samuel Blair (O), 7363 Ridge avenue. Cost, \$1,600. Dwelling, brick, 2 stories, 15x31 feet, Cost, \$12,000. Six dwellings.

S. Cohen (O), 2319 Brown street. Seidman & Getz (C), 1312 North Sixth street. Cost, \$20,000. Theatre, brick, one story, 53x108 feet, Miller and Aramingo streets.

C. Pemberton, Jr., 1400 South Fifty-eighth street. Cost, \$67,500. Twenty-seven dwellings, brick, 2 stories, 15x32 feet. Cost, \$2,600. One dwelling, Fifty-eighth street and Haddonfield avenue.

Dill & Collins Co. (O), Tioga and Richmond streets. Latta & Terry (C), Pennsylvania Building. Cost, \$7,500. Pumping station, brick, 1 story, 25x46 feet, Tioga and Richmond streets.

Dr. A. H. Reynolds (O), 4630 Chester avenue. Esham & Steel (C), 4804 Woodland avenue. Cost, \$1,000. Store and dwelling, 4619 Woodland avenue.

Joseph Fisgaer (O), Fifth street and Fairmount avenue. H. Glass (C), 1809 North Seventh street. Cost, \$1,250. Store and dwelling, 809 Columbia avenue.

F. W. Storch (O), 1712 Wolf street. Cost, \$14,400. Nine dwellings, brick, 2 stories, 14x30 feet, Hancock street and Allegheny avenue. Cost, \$14,400. Six dwellings. Cost,

\$9,800. Seven dwellings. Cost, \$32,200. Twenty-three dwellings. Cost, \$32,200. Twenty-three dwellings. Cost, \$32,200. Twenty-three dwellings. Cost, \$1,800. One dwelling. Cost \$1,800. One dwelling. Cost, \$1,800. One dwelling. Cost, \$1,800. One dwelling. Cost, \$1,800. One dwelling, Hancock street and Allegheny avenue.

C. S. Kates (O), Seventy-ninth street and Brewster avenue. Cost, \$3,000. Two dwellings, brick, 2 stories, 16x42 feet, Eightieth street and Botanic avenue.

John Kennedy (O), 604 Mutual Life Building. W. Black (C), 3528 Hope street. Cost, \$2,700. Dwelling, brick, 2 stories, 16x25 feet (3), Tioga and Hope streets.

Louis Shpeen (O), Seventy-ninth street and Bartram avenue. Cost, \$3,200. Two dwellings, brick, 2 stories, 16x37 feet, Eighty-fifth street and Gibson avenue.

Davidson & Silberman (O), 808 Snyder avenue. Cost, \$3,800. Store and dwelling, brick, 3 stories, 16x34 feet, Twenty-second and Toronto streets.

Harrison Bros. Co. (O), Thirty-fifth street and Gray's Ferry road. Barclay White Co. (C), Perry Building. Cost, \$15,000. Manufacturing building, brick, 1 story, 47x65 feet, Thirty-fifth street and Gray's Ferry road.

Paolo Powers (O), 808 Federal street. C. E. Oelschlager (C), Harrison Building. Cost, \$14,000. Theatre, brick, 2 stories, 36x115 feet, Eighth and Latona streets.

Alterations and Additions

McIlvain Co. (O), Land Title Building. Graham Campion Co. (C), Heed Building. Cost, \$700. Apartment house, Juniper and Spruce streets.

J. F. Pettit (O), 5629 Girard avenue. Mitchell Bros. (C), 2125 Race street. Cost, \$900. Store and hall, Fifty-fourth street and Wyalusing avenue.

Calvary Church (O), Pulaski and Manheim avenues. W. C. Wright (C), 22 Harvey street. Cost, \$1,900. Church, Pulaski and Manheim avenues.

Estate of T. W. Brown (O), 1206 Arch street. H. P. Schneider (C), York road and Erie avenue. Cost, \$700. Store and dwelling, 1206 Arch street.

A. Melikowsky (O), 210 Pine street. Kline

& Kline Co. (C), Betz Building. Cost, \$900. Dwelling, 237 Pine street.

Pennsylvania Co. (O), 517 Chestnut street. John Duncan (C), 920 Walnut street. Cost, \$1,100. Store, 149 North Fourth street.

Philadelphia Bobbin & Spool Co. (O), Philip and Dauphin streets. J. F. Kelley (C), 4417 Cleveland avenue. Cost, \$1,200. Factory, 39 Ashmead street.

Murray Gibson (O), 125 South Eleventh street. C. H. Zebley (C), Pine and Quince streets. Cost, \$1,100. Store, 2217 Chestnut street.

Frederick Hess (O), 1509 Oxford street. Alto Malz & Co. (C), 503 Morris street. Cost, \$1,400. Stable, 1432 Oxford street.

Baxter, Kelly & Faust (O), Tioga and C

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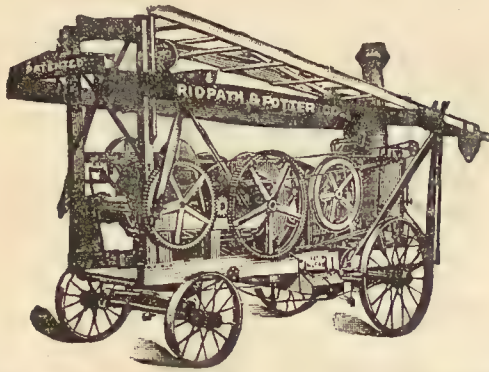
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streets. A. L. Fretz & Sons (C), 1222 Chancellor street. Cost, \$1,000. Manufacturing building, Tioga and C streets.

C. Schmidt & Sons (O), Second street and Girard avenue. Vulcanite Paving Co. (C), Land Title Building. Cost, \$1,600. Boiler house, Second street and Girard avenue.

G. W. Dickson (O), Atlantic City, N. J. W. D. Berlick (C), Scranton, Pa. Cost, \$4,500. Dwelling, Cemetery road and Whitney street.

Stephano Bros. (O), 1014 Walnut street. William Steele & Sons (C), Sixteenth and Arch streets. Cost, \$1,300. Manufacturing building, 1014 Walnut street.

P. A. B. Widener (O), Land Title Building. W. H. Jackson Co. (C), New York City. Cost, \$4,000. Hotel, Broad and Walnut streets.

Philadelphia Trust Co. (O), Fourth and Chestnut streets. F. G. Myhlertz (C), 1723 Filbert street. Cost, \$16,600. Store and

dwelling. Cost, \$5,000.

J. A. Lottes (O), City Line. Oak Lane Park Building Co. (C), Oak Lane, Pa. Cost, \$3,750. Residence, City Line, Oak Lane.

Drexel Building (O), Fifth and Chestnut street. A. R. Raff (C), 1635 Thompson street. Cost, \$6,000. Bank, Fifth and Chestnut streets.

Finance Co. (O), Drexel Building. Adam Hoppel Iron Works (C), New York City. Cost, \$3,000. Theatre, Juniper and Market streets.

A. Masona (O), 628 North Sixty-third street. J. Esbornson (C), 1700 North Sixtieth street. Cost, \$1,500. Store and dwelling, 6046 Haverford avenue.

Charles Schmitt (O), 1212 North Fifth street. M. Stevens (C), 920 Magee street, Towndale. Cost, \$2,000. Store and dwelling, 1211 North Fifth street.

NEW JERSEY Construction News

Residence, Grant avenue, Trenton, N. J. \$20,000. Architects, W. W. Slack & Co., American Mechanics Building, Trenton, N. J. Owner, C. Edward Murray, Trenton, N. J. (237 Greenwood avenue). Hollow tile and plaster, 3 stories, 35x78 feet, tile roof, electric lighting, hot-water heating, parquetry floor. Plans completed. Architects ready for bids.

Church (add.), Princeton, N. J. Architects, Cram & Ferguson, Boston, Mass. Owner, Trinity P. E. Church, care of Rev. O. B. Pomeroy, Princeton, N. J. Brick and concrete, fire-proof, 2 stories and basement, 72x137 feet, electric light, steam heat, slag roof. Owners have received bids.

Apartment and Store, 109-13 Witherspoon street, Princeton, N. J. Architect, private plans. Owner, C. O. B. Dennen, Princeton, N. J. Brick, 3 stories, 60x110 feet, slag roof, steam heat, electric lighting, tile baths. Owners will take bids soon.

Residence, Woodbury, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Frank H. Stewart, 37 North Seventh street, Philadelphia. Stone, 2½ stories, shingle roof, electric lighting, hot-air heating and hot-water heating, hardwood

floors. Architect taking bids due January 14th. The following are figuring: H. L. Brown, 1714 Sansom street, Philadelphia, Pa.; J. S. Rogers Co., Moorestown, N. J.; J. B. Best, Woodbury, N. J.; W. D. Fletcher, Woodbury, N. J.

Church, Bayhead, N. J. \$10,000. Architect, W. P. Enderbrock, American Mechanics Building, Trenton, N. J. Owner, R. C. Church, care of Rev. H. Benard, Pt. Pleasant, N. J. Frame, 1 story, 36x72 feet, slate roof, hot-air heat, electric light. Plans in progress.

Residence, Woodside avenue, Trenton, N. J. \$5,000. Architect, W. P. Enderbrock, American Mechanics Building, Trenton, N. J. Owner, C. H. Dreshman, care of architect. Frame, 2½ stories, 30x40 feet, slate roof, hot-water heat, electric light. Plans completed.

Garage, Church lane, Bridgeton, N. J. \$10,000. Architect, private plans. Owner, Hahn Auto Co., Bridgeton, N. J. Brick, 2 stories, 50x120 feet, slag roof, electric light. Plans completed. Owner will take bids in spring.

Church (add.), Millville, N. J. Architect, A. H. Moses, 136 South Fourth street, Philadelphia, Pa. Owner, Trinity M. E. Church, care of Rev. J. J. Wright, Millville. Brick, 1 story, 50x75 feet, slate roof, electric light-

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ing, heating extension. Plans in progress.

Bridge Approaches, Millville, N. J. \$5,000. Engineer, private plans. Owner, City of Millville, care of H. Geig (Mayor), Millville, N. J. Owners will take bids in one month.

Stores and Apartments, South Pearl street, Bridgeton, N. J. \$15,000. Architect, private plans. Owner, William R. Shaw, Bridgeton, N. J. Brick, 3 stories, 65x75 feet, slag roof, steam heat, electric lighting. Owners will take bids in spring.

Residence, Pitman, N. J., \$5,000. Architect, private plans. Owner, Robert D. Clow, Jr., 411 Broadway, Camden, N. J. Stone and frame, 2½ stories, shingle roof, hot-water heat, electric lighting. Owner about ready for bids.

School, Pedricktown, N. J. \$12,000. Architect, Clyde S. Adams, 1509 Arch street. Owner, Board of Education, care of John McGiven, Pedricktown, N. J. Brick, 2 stories. Plans in progress.

Residence, Haddon Heights, N. J. \$5,000. Architect, private plans. Owner, name withheld. Builder, William Congezer, Haddon Heights, N. J. Frame, 2½ stories, 32x46 feet, slate roof, hot-water heat, electric light. Builder will take sub-bids soon.

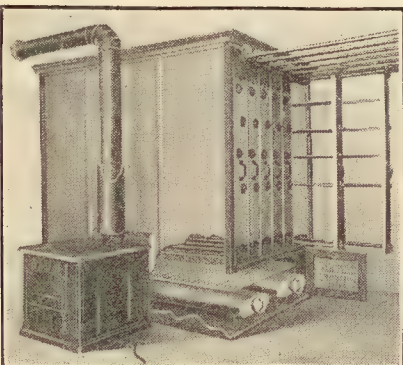
Garage, Audubon, N. J. \$3,000. Architect, private plans. Owner, H. LeCato, Audubon, N. J. Concrete block, 1 story, 60x140 feet, slag roof, electric light. Owner will take sub-bids soon.

Operation of Residence and Bungalows, Audubon, N. J. \$2(500 to \$3,500. Architect, private plans. Owner, John S. Soffe, Audubon, N. J. Frame, single and slate roofs, hot-air heating, electric lighting. Owner will take sub-bids in a few weeks.

Church, Barrington, N. J. \$10,000. Architect, Charles Bolton & Son, Witherspoon Building. Owner, Presbyterian Church, Rev. A. W. Karnell, Barrington, N. J. Stone, 1 story, 40x100 feet, shingle roof, hot-air heating. Plans in progress. Architects will take bids in spring.

Bridge, Newton Creek, Collingswood, N. J. \$1,500. Engineer, J. J. Albertson, Court House, Camden, N. J. Owner, Board of Freeholders, Camden County, care of F. W. George, Court House, Camden, N. J. Rein-

(Continued on page 30.)



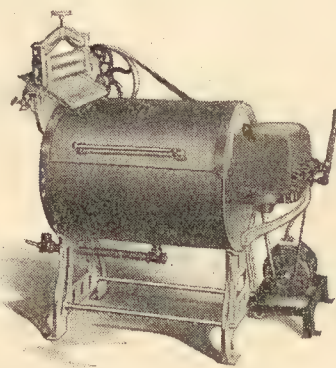
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134 South Fourth Street**NEW JERSEY CONSTRUCTION NEWS.**

(Continued from page 27.)

forced concrete. Owners are ready for bids.

Street Paving, various streets, Audubon, N. J. Engineer, J. J. Albertson, Audubon, N. J. Owner, Borough of Audubon, N. J., care of H. Brown, Audubon, N. J. Macadam and concrete curbing. Plans in progress.**Home**, Longport, N. J. Architects, Hewitt & Granger, Bullitt Building. Owner, Bamberger Home, Atlantic City, N. J. Hollow tile and plaster, brick, 2 stories and basement, 120x185 feet, asbestos shingle roof, marble interior, hot-water heat, electric light, water-proofing. Architects are taking bids due January 19th. The following are figuring: Freund-Seidenbach, Bulletin Building; Roydhouse-Arey Co., Fidelity Building; Thomas Little & Sons, 1713 Morravian street; James Johnston, 1721 Ludlow street.**Residence (alt. and add.)**, 256 Bellevue avenue, Trenton, N. J. \$10,000. Architect, W. A. Poland, 9 South Stockton street, Trenton, N. J. Owner, Mrs. Charles E. Hewitt, on premises. Brick, 3 stories, slate roof, hardwood floors, hot-water heat, electric lighting.**Residences (6)**, 2305-15 Howell street, Camden, N. J. \$15,000. Architect, private plans. Owner, William Cornell, 120 North Twenty-third street, Camden, N. J. Brick, 2 stories, 14x38 feet, slag roof, hot-air heat. Owner is taking sub-bids.**Refrigerating Plant**, Fifteenth and Race streets, Philadelphia. Architect, T. Stephen, Temple Building, Camden, N. J. Owner, Lester Milk Co., care of Charles Schonders, on premises. Brick, 2 stories, slag roof, electric lighting. Owners taking bids. S. Reusswick, 137 North Tenth street, Philadelphia, is figuring.**Hospital**, Vineland, N. J. \$25,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, New Jersey Training School, Vineland, N. J. Hollow tile and stucco, 2 stories, 95x120 feet, slag roof, electric lighting, steam heating. Plans completed. Bids will be taken in a few days.**Apartment House**, Pacific avenue, Atlantic City, N. J. \$40,000. Architect, R. Werner, 5146 Market street, Philadelphia. Owner, Nathan Raidman, 5944 Walnut street, Philadelphia. Brick and hollow tile, 3 stories, 20x80 feet each, slag roof, hot-water heating, electric lighting. Plans in progress.**Hotel (alt. and add.)**, Baltimore Inn, Cape May, N. J. Architect, private plans. Owner, Mrs. Emma D. Harrison, Seventeenth and Hammon streets, Worcester, Mass. Consists of alteration to present building, four stories, frame and interior alteration. Plans in progress.**Residence**, Cape May, N. J. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Joseph M. Pugh, care of Lybrandt Ross Bros. & Montgomery, Morris Building, Philadelphia. Brick and frame, two and one-half stories. Plans in progress.**Sewage Disposal Plant**, Cape May, N. J. Engineer, S. H. Townsend, City Hall, Cape May, N. J. Owner, City of Cape May, care of engineer. Plans completed.**School**, West Cape May, N. J., \$15,000. Architect, L. Boyer, Wildwood, N. J. Owners, Board of Education, care of H. Swain, West Cape May, N. J. Brick, two stories. Contemplated.

..Water Plant and System, West Cape May,

N. J., \$15,000. Engineer, private plans. Owners, Borough of West Cape May, N. J., care of H. Hastings (Mayor). Thomas W. Reeves (Clerk), West Cape May, N. J. Consists of standpipe, pump engine, cast iron pipe, fire plugs, valves, etc. Contemplated.

Sewerage Disposal Plant, Avalon, N. J., \$25,000. Engineer, R. L. Goff, Ocean City, N. J. Owners, Borough of Avalon and Peermont, care of Gilbert Smith (Mayor), Avalon, N. J., and E. O. Howell, Jr. (Clerk), 514 Walnut street, Philadelphia. Sewerage ejectors, concrete tank, 75x40 feet, drainage pipe, valves, etc. Plans completed.**Residence**, Cape May, N. J., \$8,000. Architect, private plans. Owner, Otis M. Townsend, Eighth street, Ocean City, N. J. Frame, two and one-half stories, 36x42 feet, shingle or asbestos roof, electric light, hardwood trimmings, refrigerator. Owner will soon take sub-bids.**Sewage Disposal Plant**, Ventnor, N. J., \$25,000. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Consulting engineer, Herbert Snow, care of Board of Health, Harrisburg, Pa. Plans completed. Owners ready for bids.**Residence**, Fanwood, N. J. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, James C. Miniszek, Fanwood, N. J. Hollow tile and stucco, two and one-half stories, shingle roof, electric lighting, hardwood floors, hot water heating.**Residences (25)**, Parkside, Camden, N. J., \$3,000 each. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Isaac Budd, Camden, N. J. Brick, two stories, 16x38 feet, slag roof, hot air heating. Plans completed. Architect about ready for sub-bids.**Sewers**, various street, Camden, N. J. Engineer, L. P. Farnum, City Hall, Camden, N. J. Owners, City of Camden, care of J. C. Haines, Chairman, City Hall. Brick and cast iron pipe, manholes. Owners will take bids soon.**SPECIALIZED MEDIA FOR SPECIALIZED THINGS.**

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THE NEW ADELPHIA HOTEL

A Brilliant Example of the Highest and Most Modern Ideals in Hotel Planning and Construction—
Interior Decoration, Furnishings and Equipment—Individual Silver, China and Accessories.



Fifty years ago the Philadelphian who would venture to suggest the erection of a hotel anywhere but on Chestnut street would have been set down as a madman. True, the La Pierre House, afterward known as the Lafayette, and subsequently the Stratford, occupied Broad street sites, but then the La Pierre was not then or subsequently, nor was the Stratford, regarded as, strictly speaking, first-class houses. The hotel de luxe of the period was the Continental, with the Girard, the Washington, the American and the Guy House close seconds. All of these now ancient hostelrys fronted Chestnut street and were

considered rather sumptuously fitted for their day. Indeed, one of the keenest memories of my young manhood is the recollection of a visit made to inspect the, for those days, lavish and palatial fittings of the old Girard House, then under the proprietorship of Andrew Moore, a millionaire distiller. Those fittings, as I now recall them, were most decidedly garish, tawdry and "gingerbread," one of the much-discussed features of the lobby being panelled paintings of a somewhat daring and risqué order of nudity.

The Old Bellevue.

It was George C. Boldt who blazed the

way, here in Philadelphia, at least, to the taste refinement and splendor of the hotel of the present day, with the quiet elegance and charm he was able to infuse into the old Bellevue. What Boldt did with the Bellevue is too well known to require more than a passing reference. The Continental, once the resort particular for every celebrity visiting Philadelphia, was speedily relegated to second place. The famous Clover Club did the rest. Men of note who came here to break bread and parry wit with the bon vivants of this now doyen of dining organizations, soon spread the fame of the Bellevue nation-wide. It was the Bellevue, in fact, which shifted the hub of the hotel universe to Broad street, aided and abetted, of course, to a considerable degree by the transfer of the municipal and county departments to the new City Hall. How Boldt passed from the limited resources of the Bellevue to the Bellevue-Stratford, and thence to the epoch-making magnificence of the Waldorf-Astoria, is as Kipling would say, another story.

Shifting of the Hotel Centre.

In an almost incredibly brief space of time Broad street became the hotel centre of Philadelphia. The Walton, the Stenton, the Lorraine and Majestic, and more recently the superb new Ritz-Carlton, followed in easy succession. Kugler's, the Rathskellar, L'Aiglon, and a host of lesser cafes crowded to the same section. The tide of trade,—retail trade,—sensibly shifted westward.

Within the past year, two notable hotels, embodying everything that is newest and most modern in hotel building, have defied the Broad street tradition by choosing sites to the east—the new Vendig, at Thirteenth and Filbert, and the new Adelpia, on Chestnut street, below Thirteenth.

The Adelpia Hotel.

The Adelpia, on Chestnut street, just east of Thirteenth, will be formally thrown open for the inspection of the public on the evening of January 28th. A private view, to which admission will be by card, will be given on the afternoon of January 27. The house was erected for and will be under the control of a corporation known as the Adelpia Hotel Company, and will be under the management of Mr. David B. Provan, a hotel man of wide experience, associated with the New Bingham, and regarded as one of the most capable modern hotel executives in the United States. The architect of the Adelpia was Mr. Horace Trumbauer, who designed the Ritz-Carlton and a number of other notable buildings, and the builders James G. Doak &

Co., one of the best known building firms in the structural field.

As architect of the building, Mr. Trumbauer is to be warmly commended. To say that the Adelphia is a masterpiece of refined and effective design is in no sense an exaggeration. The style is of the best period of the Italian Renaissance, the coloring rich and grateful to the eye, the detail delicately beautiful and restrained.

The surface of the buff tapestry brick in the main body of the building is effectively broken by arabesque bands of cream white brick projecting $\frac{3}{4}$ of an inch, which connect the lines of the terra cotta at the base with the crowning members of the upper stories. In a delicate and agreeable way these bands articulate the steel columns which they cover.

Interior Arrangement.

There are three basements, the first below grade accommodating the English grill room—a charming piece of interior designing—the main kitchen, the barber shop and general toilets; the lower basements, the power plant, refrigerators, etc.

The main feature of the entrance floor is a two-story lobby with ceiling of Italian wood artistically carved, marble paneled walls and pilasters of imported green cipolino and cream white marble. The pilaster caps and bases are gilded. A mezzanine floor surrounds three sides of this lobby, opening into it with balconies, achieving an effect almost fairy-like in the elfin quality of its beauty. The ladies' reception room and bar room are to the left and right, respectively, upon entering.

The Louis XVI Cafe.

A brilliantly conceived restaurant occupies the entire rear of this floor designed and decorated throughout in the period of French architecture from which it derives its name. There is an atmosphere of quiet elegance about this room, enhanced and intensified by the cream white and gold in the walls and the exquisite taste of its furnishings, which will make it one of the show places extraordinary of American hoteldom. A balcony adds considerably to the charm and effectiveness of this room.

Banquet rooms able to accommodate 800 diners occupy the second floor, fitted with the same elegance and lavishness that marks the ground floor apartments.

There are 400 bedrooms and baths in 16 floors, four of which are equipped for use as display rooms by traveling salesmen.

The window shades furnished to the Hotel Adelphia are an innovation; something entirely new, the striping creating an effect never before obtained.

The fabric is a selected quality known as Acme Cambric, manufactured by McMaster & Maugle Company, Inc., Philadelphia, Pa., and is recognized as the finest product known in the window shade world.

The Adelphia's Roof Garden.

An extensive roof garden enclosed for use throughout the year as a cafe and convention hall is one of the striking features of the new

hotel. When completed, this roof garden will eclipse anything of the kind hitherto attempted in Philadelphia. The garden will be served by its own individual kitchen from the floor below.

The same painstaking care observable throughout the building to secure perfect taste and harmony in design and fittings has been carried even to the china, the silverware and minor accessories. The result is a building that in design, furnishings, decoration, and equipment may be said to be the final word in hotel building, a masterpiece of its kind, reflecting the utmost credit not alone upon the architect who planned and designed it, and the builders who carried it into suc-

cessful execution, but in an equal sense upon the company of hotel men who financed it and brought its realization within the zone of the possible.

The Management.

That the Adelphia will be most capably managed is attested by the personnel of the staff chosen for its direction. David B. Provan will be managing director, with John V. Scott, late of the Bellevue-Stratford, as manager. J. H. Bothwell will officiate as assistant manager, Felix Egler takes charge as superintendent of the culinary department and Henri Mamet—a famous cordon bleu—will be the chef. Paul O. Arnsvalde is to be maitre d'hotel.

An Authentic List of the Contractors and Sub-Contractors Who Did the Work and the Manufacturers Whose Material was Specified or Used in the Adelphia Hotel.

Demolition, Excavation, Concrete Foundations, Lumber and Brick Work:

William R. Chapman & Sons, Fifteenth and Washington avenue, Philadelphia.

The DeFrain Sand Company, Beach and Berks streets, Philadelphia.

Peoples Brothers, Twenty-fifth and Callowhill streets, Philadelphia.

Geisel & Richardson, Ridge avenue and Master street, Philadelphia.

Cut Stone:

The New England Granite Company, West-erly, R. I.

John Dodds, 2929 Ellsworth street, Philadelphia.

Terra Cotta:

The Atlantic Terra Cotta Company, E. H. Putnam, Jr., 1120 Broadway, New York City.

Fireproofing:

The Roebling Construction Company, Land Title Building, Philadelphia.

Hollow Tile:

O. W. Ketcham, Builders' Exchange, Philadelphia.

Structural Iron Work:

The American Bridge Company, Pennsylvania Building, Philadelphia.

Thomas McAvoy, 7 West Sixty-seventh street, New York City.

The Dixon Graphite Paint Company, 1020 Arch street, Philadelphia.

Miscellaneous Iron Work:

The Wells Architectural Iron Works, River avenue and 151st street, New York.

The U. S. Metal Products Company, 203 West Fortieth street, New York City.

The Pittsburgh Plate Glass Company, Eleventh and Arch streets, Philadelphia.

The Stiffel & Freeman Company, 723 Chestnut street, Philadelphia.

The American Safety Tread Company, Old South Building, Boston, Mass.

The Diamond Door-Hanger Company, 26 Rodney street, New York City.

Roofing:

Merritt & Co., Camden, N. J.

The Warren-Ehret Company, Land Title Building, Philadelphia.

The Grueby Tile Company, Boston, Mass., through William Moore Company, 1506 Sansom street, Philadelphia.

Sheet Metal:

The J. S. Thorn Company, Twentieth and Allegheny avenue, Philadelphia.

Sash Pulleys:

The American Pulley Company, Philadelphia.

Mill Work:

A. Wilt & Sons, 723 North Front street, Philadelphia.

L. Alavoine & Co., 712 Fifth avenue, New York City.

The Williamsport Planing Mill Company, Williamsport, Pa.

Window Shadings:

Furnished to contractors by McMaster & Maugle Co., Inc., 1215 Race street, Philadelphia.

Plaster and Plastering:

H. W. Miller Company, 501 East Twenty-second street, New York City.

The Architectural Plastering Company, 624 First avenue, New York City.

"Alco" Plaster, The Charles Warner Company, Wilmington, Del.

Paints and Painting:

The James I. Wingate Company, Boston, Mass.

John T. Lewis & Co., Lafayette Building, Philadelphia.

John Lucas & Co., 322 Race street, Philadelphia.

Hardware:

Murta, Appleton & Co., 1126 Chestnut street, Philadelphia.

P. & F. Corbin, New Britain, Conn., J. B. Comstock.

The Bayer, Gardner, Himes Company, 157 West Twenty-ninth street, New York City.

Marble and Marble Work:

Batterson & Eisele, Times Building, New York City.

The Vermont Marble Company, Twenty-second and Westmoreland streets, Philadelphia.

Tile and Tile Work:

The Haney-White Company, Broad and Lehigh avenue, Philadelphia.

The Robertson Art Tile Company, Morrisville, N. J.

Plumbing:

The Wells & Newton Company, Avenue B and Seventeenth street, New York City.

The J. L. Mott Iron Works, 113 Fifth avenue, New York City.

Heating:

Baker, Smith & Co., 83 West Huston street, New York City.

Laundry:

The American Laundry Machine Company, 132 West Twenty-seventh street, New York City.

Refrigerating Plant:

The York Manufacturing Company, York, Pa.

Covering Brine Lines:

John R. Livezy, 1933 Market street, Philadelphia.

Electric Work:

The United Electric Construction Company, 1727 Sansom street, Philadelphia.

Cooking Apparatus:

The Duparquet, Huot & Monouse Company, 43 Wooster street, New York City.

Elevators:

The Standard Plunger Elevator Company, 115 Broadway, New York City.

Engines:

The Ball Engine Company, Commercial Trust Building, Philadelphia.

Dynamos:

The Burke Electric Company, Erie, Pa.

Refrigerator Boxes:

The United Cork Companies, 50 Church street, New York City.

Lighting Fixtures:

The Sterling Bronze Company, 16 East Fortieth street, New York City.

Marquise:

The William H. Jackson Company, 2 West Forty-seventh street, New York City.

Revolving Doors:

The Van Kannel Revolving Door Company, Fuller Building, New York City.

Toilet Accessories:

The J. L. Mott Iron Works, 113 Fifth avenue, New York City.

Mail Chutes:

The Cutler Mail Chute Company, Rochester, N. Y.

Carpets and Rugs:

Bigelow Carpet Company, Worcester, Mass., through Gimbel Brothers, Philadelphia.

Draperies:

Gimbel Brothers, Philadelphia.

Furniture:

The Pooley Furniture Company, Philadelphia, through Gimbel Brothers, Philadelphia.

Silver:

The Gorham Company, New York City.

China:

The Maddock Pottery Company, Trenton, N. J.

Linens:

The William Lidell Company, New York and Ireland, through H. T. Patterson, Philadelphia.

Beds and Bedding:

H. D. Dougherty & Co., Philadelphia.

CAUSES OF FAILURE OF STUCCO WORK

A. G. Cutting.

A number of years ago stucco was quite generally used in certain localities, but owing to failures of the material to withstand the action of the elements and to other causes, this type of construction was almost entirely abandoned. During the last few years, however, there has been a very marked tendency by the building public to take up this class of construction again. Therefore, this word of caution.

We do not want to have the same experience with this type of construction as the concrete block industry has had, and yet unless due care is used in drawing specifications and in their application, there are going to be a great many failures as in the past. Our architectural friends are very partial to stucco exterior, and if it is properly mixed and applied will come up to their expectations in every way. So much depends on the selection of the material, proper mixing and proper application that only skilled mechanics who are familiar with this class of work should be employed.

The writer has had opportunities to inspect a great many stucco residences in the past few years and is very sorry to say that the greater percentage of them are unsightly, due to cracks, discolortions caused by improper application, and lack of proper ingredient, etc. I wish to illustrate briefly by stating facts regarding two or three of the houses that have come to my attention.

I remember one residence in particular, where there were a great many horizontal cracks in the stucco running almost the entire length of one side of the building. These cracks were about two feet apart and were very pronounced. The whole area of sides and ends was very unsightly. After a very careful investigation it was found that in nearly every instance where cracks had developed that they were at a point where the wire lath was lapped and in many places less than one-fourth of an inch thickness of stucco was over these laps. In some instances by cutting out the cracks it was found that the metal lath was not even tacked solidly in place, and yet stucco work in general was condemned by a number of parties on the results obtained on this one building. It was quite apparent that the trouble was not due to any fault of the material, but in this particular instance was due entirely to the application of the wire lath and stucco. In addition to the large cracks at the laps of the wire lath, there were a number of hair cracks throughout the entire area, which apparently were caused by too much troweling of the concrete mass, and as was found by investigation, there was a coating or frosting of Portland cement on some of the areas and the cracks penetrated just through this frosting.

In another case regular lime mortar plaster

without any Portland cement was used for the scratch coat. The second and finishing coat consisted of a poor mixture of Portland cement and sand. The finish coat was only about 1/4-inch thick. Moisture penetrated through the finish coat and the mortar composing the scratch coat, being subjected to continued moisture, disintegrated and the stucco came off in sheets.

The third case was very similar to the second, although wood lath was used instead of wire lath on a small building near the seashore. The scratch coat material consisted of regular interior plaster and the second coat consisted of Portland cement, asbestos rock and asbestos fiber. The second coat was very thin and the damp salt air and moisture penetrated through to the first coat. The lath became swelled and the stucco came off in sheets. The stucco on this work was condemned and the faults were laid at the door of the asbestos and Portland cement. Upon investigating the matter thoroughly, it was readily proven that the entire trouble was due to the nature of the lath and the materials entering into the first coat.

I have referred to these buildings with a view of cautioning people interested in stucco construction to see that this particular part of the building is given proper attention. In the past stucco has been applied in two coats, the total thickness being about 1/2 inch to 5/8 inch. Past experience is teaching us, however, that 1 inch is by far better, and if the material is applied in this thickness, house owners and architects should not have reason to regret its use.

Another point of considerable importance is the color. A uniform color is rather difficult to obtain on smooth surfaces particularly, but it can be obtained if proper attention is given to the selection and mixing of the ingredients and if the stucco is properly applied. When Portland cement and sand are used it is very essential that the sand should be absolutely free from any organic materials which have a tendency to discolor. It is also of vast importance that the ingredients be mixed very accurately and carefully, and that a sufficient amount be mixed at one time to cover certain areas exposed to the same lights and shadows.

For example, the work should not be left in an uncompleted condition half way between windows or half way down the side walls, for just as certain as this is done, there will be a streak showing where the later work was started. If it is necessary to do a certain given area at two operations, care should be used to get the materials properly blended and the new stucco floated or troweled to correspond exactly to that already done.

Portland cement and sand as a stucco mixture has been used with fair success where
(Continued on page 37.)

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Editorial Comment

Philadelphia continues to maintain unimpaired her supremacy as one of the most consistently active building centres among the larger cities. The official figures for 1913, compiled by the Philadelphia Bureau of Building Inspection, show a most gratifying gain over the figures for 1912. These figures, based on permits issued by the department, covering every phase of structural activity during the year, show the following interesting comparisons:

Permits issued, 1912. 10,123
Permits issued, 1913 10,564
An increase over 1912, of 441.

Number of operations, 1912. 14,707
Number of operations, 1913. 14,813
An increase over 1912 of 106.

Estimated cost of operations, 1912. \$37,173,635
Estimated cost of operations, 1913. 38,763,850
An increase over 1912 of \$1,590,215.

Analysis of these figures, carefully tabulated for the year upon another page of this number of "The Guide," reveals some highly interesting features. For example, the highest total of expenditure in any given classification is an item of \$9,934,925 for two-story dwellings, showing that, despite an occasional croak heard here and there about the prospective imminence of a slump in this class of building, Philadelphia is still living up more or less handsomely to her reputation as the "City of Homes." Next to this item in totality of expenditure is one of \$4,788,495 for "additions," with an item of \$2,799,380 for "alteration and repairs." The pessimistic fraternity will find it difficult to throw anything resembling a full-sized panic scare into a community which can show expenditures of this calibre while economic glooms are working overtime and a Democratic administration is busy at Washington making lunges at the tariff and poking holes in currency and income tax legislation. Apartment and tenement houses ran almost neck-and-neck during the year, \$1,138,200 representing the tenement expenditure, and \$1,158,000 that for the more exclusive "apartment" order of habitation.

An item of \$3,348,800 for manufactories furnishes another evidence of healthy business conditions, supplemented as it is by an item of \$186,750 for workshops and another of \$402,350 for garages. That investors are beginning to realize that the office building has been overdone is instanced by the fact that but \$2,026,950 was expended during 1913 on this class of edifice. Places of amusement show an item of \$1,729,745, schools one of \$2,081,130 and churches \$334,750 for the year. Viewed by and large the report for the year shows that Philadelphia is living up to her eminence as one of the busiest of building centres. Just at this time when most of the larger cities are recording heavy slumps from their 1912 returns, Philadelphia

may be pardoned a feeling of pride that the old Quaker City is able not only to equal, but to surpass her former achievements. And, as indicated in certain of the comparisons drawn in commenting upon the various items it is a bit gratifying, too, to realize that the gain is a healthy one depending for its volume not upon a few flash structures, involving heavy individual outlays, but upon a host of routine improvements predicated the soundest mercantile and industrial conditions and instancing in the most practical way a high average of prosperity in the mass. "The Guide" wants to congratulate the building trades of Philadelphia upon this notable showing. It speaks volumes in favor of an optimistic outlook upon the prospects for 1914. If 1913 was able to produce such totals with the tariff tinkers tinkering the greater part of the year and the disaster croakers emitting a continuous wail of the most dismal prophecy 1914 should be a year to conjure with. The tariff is definitely shelved, the currency question discounted, the Mexican question eliminating itself by process of the inexorable logic of events and the votes for women agitation just acute enough to lighten the drab level of the day's news. Employment is fairly plentiful, money reasonably easy and the cost of living neither better nor worse than it was. True, "strictly fresh eggs" roost high, but even eggs must get back to normal when the hen gets on the job with the advent of milder weather. Taking everything into consideration 1914 looks good. Indeed, "The Guide" will be distinctly at fault in its predictions if this time next year is not showing a still greater gain over '13 than '13 is now showing over '12.

* * *

Mr. G. Alexander Wright, whose booklets "Wright on Quantities" and "Building Arbitration" have won him notice as an earnest and thoughtful student of trade conditions, was the principal speaker at a meeting held in San Francisco for the purpose of organizing a San Francisco Council of the American Institute of Quantity Surveyors. Portions of his address are of such general interest in their application to certain well-known practices associated with estimating that "The Guide" is tempted to quote at unusual length Mr. Wright's opinions as herein expressed.

"It was in the month of February, 1891, now over twenty-two years ago, in this city," said Mr. Wright, "that my experience in our estimating methods commenced.

Stranger as I then was, to many things, some of which I afterwards partially learned in what may be aptly termed the 'University of experience,' I was astonished to find what an enormous waste of time and effort was devoted by contractors to figuring quantities, and with, I may say, a looseness of method

and guess-work that was truly appalling, especially so perhaps to me, fresh from a community where every item in a building, even down to a solitary mitre on a 1x2 wood molding, would be taken off and accounted for.

To-day we find conditions have improved to a certain extent, but only so far as relates to the necessity for greater care in that department of our building industry which deals with dollars and cents, viz.—the estimating department, the “hub of the whole business,” from which should radiate the proper cost of work, ready to be handed to the architect in the form of a bid, and which is an evemplification (or should be) of three important elements, viz.: First, accurate quantities; second, living unit prices, and thirdly, a legitimate profit. But these conditions, even at the present time, are seldom fulfilled. The competition, so-called, between the bidders is based largely upon the quantity of material required, and I am more convinced to-day that a complete change is necessary in our methods of estimating and handling bids than I was twenty-two years ago. With all our boasted progress, we are still away behind the times in our estimating practices.”

* * *

“It is, nevertheless, encouraging to find that among those architects, contractors and engineers who have taken the time to consider this question, there has been growing up a conviction that our methods, in this one particular respect, are simply an inheritance, one that has come to us from that early period when the master mechanic leisurely did his figuring at night, by the aid of the tallow candle, and when there were no such things to bother him as numerous blue prints or long type-written specifications. It is no wonder, then, that such an obsolete, wasteful process is tottering to-day, and must eventually give way to those newer, better, time-saving and saner methods, such as are always demanded by American progressiveness, and by the necessities attending those improved methods of construction, which have of late years followed each other in such rapid succession. And so it goes without saying that a change of sentiment in this particular has of late years been coming. Slowly, perhaps, but none the less surely, and, gentlemen, the time is approaching when we shall have to take heed of the “writing on the wall,” for that writing will be a notice from free American contractors to American owners, and it will read: “In the interests of us both, we decline to give you gratuitous bids any longer, unless accurate bills of quantities are furnished for our use.”

And this change will be brought about largely by the justice of it, for the self-protection of all concerned, accentuated to some extent by our great national development and our characteristic desire to progress, a faculty with which we, as individuals, are all endowed, and usually use, when we arrive at the point of appreciating the direction in which the best results are obtainable. And then there is that commendable desire to save time, effort and unnecessary expense,

especially, when as in the present case, greater efficiency and satisfaction must result.”

* * *

“I may be excused just here, perhaps, for mentioning. (for the information of those gentlemen who are not already acquainted with the fact) that to San Francisco belongs the credit, or whatever you may choose to term it, of being the first city in the United States in which systematic effort was ever made to supplant the old style of figuring for the modern one of estimating upon bills of quantities, for it was in May, 1891, when in the exuberance of comparative youth, I suppose, I was first tempted to ask permission to address a body of contractors in this city, upon the subject of quantities and, perhaps very wisely, I undertook to point out to these gentlemen the “error of their ways.” Well, as I said the other day, I escaped with my life. But there were a few present, very few, who thought there might be something in this quantity business, after all, with the result that, later on, and for a due and proper consideration, some carefully prepared bills of quantities were secured by one or two bidders, and, be it recorded, some of the largest and most profitable contracts ever awarded in those days were afterward obtained as a result of these quantities. I find it was also in 1891 that I was invited to address the S. F. Chapter of the A. I. A. upon this Quantity System, and which I did. One gentleman present suggested that it would be a good thing to give an address before the contractors, but I had, as I have told you, already tried that. The educational process, however, had commenced, and was destined to continue. For some years after that no opportunity was lost to talk quantities to every architect and contractor in this city, who had time to, or cared to listen. Many letters and some literature were sent broadcast. Articles appeared in the professional press and building papers, and I received many letters from eastern contractors, and from some architects also, approving my efforts, and suggesting that I continue the fight for better conditions.”

* * *

“It has been suggested that the attorneys of councils in conjunction with the Chief Counsel of the National Board, will constitute the legal department of the institute, having the following, among other objects, in view, viz.:

First. To promote bills before the State legislatures, making it compulsory that when bids are invited for new State buildings, etc., that guaranteed bills of quantities shall be furnished to each bidder, and that such quantities shall represent the quantity of work to be done under the contract.

* * *

Second. To also promote licensing bills providing for the examination and registration of persons who desire to practice as quantity surveyors.

Third. To protect the interests of the Institute and councils. Arrangements have al-

ready been made for the publication, under the auspices of the National Society of a four-page printed bulletin of information of interest to members, and which will be mailed to each one every month.

Such then are some of the objects which it is considered can be attained. The whole trend of the quantity system is to promote confidence between owner and contractor, and which should always exist. It is unfair for an owner to put a number of contractors to the trouble of figuring out quantities for a building which he may never build. We, therefore, cannot consistently blame a contractor for trying to break even, after a contract is signed, and he finds something has been omitted. It is the “method” and not the contractor who should be criticized.

A great deal more might be said, but it is believed that the time has arrived when most men who think rightly and and try to do right have made up their minds that a change in our present estimating system is now necessary, some means whereby a common understanding, which shall form the true basis of a contract, shall be adopted. Any person who has progressed sufficiently to approve of this much, is certainly eligible for associate membership in the local councils of the American Institute of Quantity Surveyors.”

* * *

The interest lay publications are evincing in the work of the architectural profession is one of the encouraging signs of a widespread popular awakening in the arts. Some eminently sensible comment touching the subject of the architect and his commission, for instance, appeared not long ago since in the columns of the “Brooklyn Eagle.”

“It is a penny-wise and pound-foolish policy that prompts the client to ask his architect to give the best of his talent and experience and in the same breath to cut the rate of his commission,” observes the “Brooklyn Eagle.” “The rates established by the Institute are no more than will give a fair return for the services rendered. The architect who shirks his duties to obtain a larger profit and the ‘scab’ who makes a practice of rate-cutting are in the same class, and inferior workmanship may be expected of both.

“No reputable architect will overcharge for his services. He is much more apt to under-value them. Furthermore, he is in a position to save his client a sum as much as and often more than his commission by reason of his familiarity with the supply markets, and his experience in the use of materials of one kind and another. In a hundred and one ways he is fitted to suggest savings and economies unknown to the layman.

“It is not to be expected, however, that he will busy his brain seeking legitimate means of reducing the cost to the owner (when every dollar saved lowers his own commission proportionately), unless he feels that he is being adequately paid, and is insured a fair profit on his labors. The architect’s commission is but a small part of the cost of the house, and the owner makes his first expensive mistake

when he figures to 'save' anything on this score.

"When the architect is in possession of the 'clues' to the problem before him, its happy solution is merely a concern of his ability to turn them to interesting account. The client should be the main source of needed information and assistance in supplying the 'personality' of the plan, but he should allow it to be evolved in a rational, individual manner in harmony with the environment and the spirit of the times. The architect should bear in mind that he acts largely in the capacity of an adviser, and he must respect the owner's wishes unless he can convince him of his error with clear argument and clean-cut illustrations. In other words, he must demonstrate what detriment to the work would result if any erroneous measures that his client might desire are enacted. It is supposed that the client will seriously consider the architect's advice before it is rejected, for it represents the fruit of many years' study and experience, which cannot be safely disregarded.

"Probably the most embarrassing moment in the architect's intercourse with his client is when there arises a question of taste. Unless you know your man, it may well lead to blows. Taste is a product of personality and environment, and good taste is merely a measure of local standards. The Indian's wigwam and his personal attire may conform as accurately to the precepts of good taste as the fashionably dressed American millionaire in his modern chateau. Many a layman considers himself a competent art critic who would never question the opinion of his lawyer or his doctor, or advance any views upon finance or attempt to explain a problem in engineering.

"All of these gentlemen may successfully hide their failures. Even the engineer may temporarily cloak his defective structure with the architect's mantle. Endowed with such powers for good and for evil, there rests upon the architect a grave responsibility, demanding from him the highest form of mental and moral equipment. Let him but show his capacity for good deeds, let him but prove his worth, and the public can be trusted to give him place in the councils of the nation."

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

"The knowledge of to-day may be the ignorance of to-morrow. Then where are you unless you keep posted from day to day?"

Many are on the road to success—traveling the wrong way.

THE FIRE ON THE HEARTH

Now that the Christmas season is with us again, warming the hearts of young and old, orthodox and agnostic alike, with its message of universal fellowship and good cheer, our thoughts turn instinctively to the genial flame that for so many centuries has been the symbol and center of the holiday spirit. Once more, in our modern and materialistic souls, is kindled the spark bequeathed by our fire-worshipping ancestors; we glimpse again the halo of legend and romance that has ever encircled the altar of the open hearth; we realize with renewed poignancy the vital and far-reaching part which has been played in our individual and racial progress by the fireplace, that "earliest and most influential of schools."

It seems difficult to establish relationship between the modern fireplace, with its scientific construction, its beauty of design and decoration and the luxury which civilization has gathered around its hearth, with the primitive form of fireplace that our savage forefathers knew. To them fire was a most precious and cherished possession—a gift from the gods themselves. Each tribe or nation had its own myth concerning the origin of the sacred flame, the best known being the legend of the old Greek Prometheus, half god, half human, who, braving heroically the wrath of Zeus, stole fire from heaven to save the sons of men. Some said he concealed the flame in a hollow fennel stalk—a Grecian mode of carrying fire—others that he held a rod against the sun; but whether gift or theft, the flaming spirit was always an object of veneration.

"If, by chance," says the historian, "the fire in the Roman temple of Vesta was extinguished, all the tribunals, all traffic, all public or private business had to stop immediately. The connection between heaven and earth had been broken, and it had to be restored in some way or other—either by Jove sending down divine lightning on his altars, or by the priests making a new fire by the old sacred method of rubbing two pieces of wood together."

Of course, it was to some such practical means as the latter that the real origin of mankind's fire must be traced. And probably each tribe made its own discoveries, for the knowledge of fire and its uses is so general that there seems to be no authentic record of a tribe wholly ignorant of them. Nature herself must have supplied primitive man with his first intimation of this wonderful phenomenon and its remarkable properties, and we can imagine what awe and terror must have filled his untutored mind at the first sight of lightning striking a tree and setting the forest ablaze, or the eruption of an unsuspected volcano shooting its fiery tongues to heaven and spreading lava and ashes on the plains below.

Whether such seeming miracles as these supplied the first firemaker's inspiration and made possible the capture and taming of this

wild, bright magic, or whether he discovered, by experiment or chance, the wizardry of rubbing together two pieces of wood or flint, certain it is that the discovery of fire marked the beginning of human culture. Most of the arts—lighting, cooking, heating, warfare, metal working and pottery making—owe their origin directly or indirectly to the useful flame.

As the generation of fire in early days involved considerable time and trouble, these primitive people used to build a fire in some public place or building, where it burned constantly, carefully tended day and night. In the temples of the Egyptians, in the towns and villages of the Greeks, Latins and Persians, this fire was always flaming brightly.

Naturally, about this important nucleus of the public weal, much sentiment and superstition clung. Religious, social and political customs and rites thrived around it, and folklore and history became closely interwoven with this red spirit of the altar and the hearth. It became the symbol of home and country, the synonym for bodily comfort and spiritual gladness, the center of festive gatherings and celebrations of many kinds. In fact, our own Christmas banquet, with its "yuletide log," its mistletoe and holly, its gifts and hospitality, is reminiscent of the feasts given in honor of the gods and goddesses of old, and as Cato said of Rome's luxurious banquets, their fascination is "not so much the pleasure of eating and drinking as that of finding one's self among friends and of conversing with them."

Meanwhile, as the fireplace developed in social significance, its construction also passed through many changes, which historian and archeologist have noted. At first the fire of a private dwelling was built simply on a hearth of clay, and the smoke escaped through either the door or through a hole in the roof, as in the cabins of the early Irish, the hovels of the Scotch, and the crude homes of various primitive tribes.

"The idea of building the fireplace against the side wall," says one authority, "probably originated in England in the eleventh century, at the time of the Norman conquest. Previously the chimney consisted merely of a hole in the roof, with a small wooden tower above to carry up the smoke. At the time of the Conquest, fortresses were constructed and the roofs used for defence, so that the central opening for smoke was rendered impossible. The fireplace was removed to an outside wall, and an opening made in this wall above the fire for the passage of the smoke."

The invention of the chimney, as we know it, evidently did not come until later, the records of its first use being somewhat indefinite. In an article published in the "American Architect" in nineteen hundred and nine, we learn that many are inclined to credit Venice with the invention of the chimney, although it would seem more natural to

look for its origin in a colder country like England. "But in the building requirements established in the reign of Richard I (eleven hundred and eighty-nine to eleven hundred and ninety-nine) and known as the Decrees of the Assizes of London, though we find familiar phrases such as the 'thickness of party walls' and the 'height of ceilings,' there is not the remotest mention of the chimney. In Rochester Castle, constructed about the middle of the twelfth century, complete fireplaces may be seen, but their flues go up only a few feet in the thickness of the wall, and are then turned out through a small oblong opening in the exterior wall. Probably the oldest complete chimneys running to the top of the building are in Castle Hedingham and in the old castle at Sherborne. During the reign of Henry VIII (fifteen hundred and nine to fifteen hundred and forty-seven) they made their way into many private houses."

In addition to the regular fireplaces, various means were used in the olden days for cooking and heating purposes, such as iron and brass braziers in which chacoarl, coke or coal was burned, the warming pans which were used in beds, and other devices carried about from room to room for the comfort of chilled hands and feet. We read, for instance, of Antonio Magliabecchi, the famous librarian of the Grand Duke of Tuscany, that he "used to move about among his books with a kind of warming pan attached to his arms, so that he might warm his hands during the cold days of a Florentine winter."

The open hearth chimneypiece, however, formed the main source of heat for many centuries, passing through various ingenious forms, expanding often to such generous dimensions as to accommodate within its recess fireside seats, and gathering about it such picturesque and useful accessories as the hobs on which the kettle was placed, the spits for roasting meat, the hangers or cranes from which the pots were suspended.

An interesting comment on the modern fireplace is given in the Shackletons' chatty book, "Adventures in Home-making:"

"Among the curious and well-nigh incomprehensible things of the last century was the passing of the fireplace in favor of the air-tight stove and furnace. Then they were swiftly discarded, with none so poor to do them reverence. But gradually they have been coming into their delightful own again, with improvements that come from a better knowledge of chimneys and of the conservation of heat."

Thus from those primitive fires of our early forefathers, and the "broad-breasted, deep-chested chimneypieces" of a few hundred years ago, we turn with expectant eyes to the fireplace of the future, picturing, in imagination, its place in the ideal democratic American home. We see the hospitable ingle-nook, the simple seats, the inviting bookshelves, all those friendly details that enhance the companionship of the blazing logs that rest upon the andirons of the open hearth. We watch the glow reflected in the loving faces of those who gather round, and feel the thrill of warmth and fellowship that

expands their hearts. And searching for a fitting motto to inscribe above this simple household shrine, we recall the old tender words, so fraught with Youth's brave hope and Age's garnered memory—"Where young men see visions and old men dream dreams."—"The Craftsman."

CAUSES OF FAILURE OF STUCCO WORK.

(Continued from page 33.)

work has been carefully supervised, but there has been such a lack of proper attention to the mixing and application that there have been some very bad failures. The use of asbestos rock and fiber to take the place of sand is meeting with considerable success. The asbestos fibers have a tendency to hold the water which is used to mix the concrete mass longer, thus giving the Portland cement ample opportunity to become properly set, and in this way stucco mixtures are possible that are more uniform in color and less liable to crack, as the fiber also furnishes additional bond.

There is one point which is frequently lost sight of, that is, it is possible to manufacture or make concrete slabs that are free from cracks and that can be exposed to the elements for an indefinite period without discoloration. Therefore, should cracks develop in a well-constructed stucco work, it can be invariably traced to setting of the building or the shrinking of the frame. By insisting upon thicker stucco walls, the liability of the stucco cracking is reduced to a minimum.

The price of lumber is readily advancing, and the desire for fireproof exteriors, especially in the suburban districts, as well as artistic effects that may be obtained from stucco, are creating a universal demand for this type of construction, and while the initial cost may be slightly more, it is such a small part of the total outlay and such an important part of the structure that the best is the cheapest in the end.—"American Contractor."

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

Don't do anything till you do it; and when you've done it, stop doing it.—William Gillett.

MOST EXPENSIVE ADVERTISING.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

An advertisement should stick out like a sore thumb without being so sensitive.—"Novelty News."

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

DO YOUR BEST.

That's the sum and substance of service. That's the whole thing in life.

When you can put on your hat and coat and walk out of the door—actually knowing that you have done your best, your sleep to-night will be wholesome and your prospects good for to-morrow.

Keep this up. It's mortal man's biggest ideal.

Your best to-morrow may make to-day look pale.

And it may not.

But whatever comes or goes, whoever makes the big sales and the little sales, whichever clerk springs the brightest ideas or makes the most effective display, you—you in your heart feel that you have put your best thought and your best energy into the work of to-day and that makes you a man among men.

PHILADELPHIA AS A BUILDING CENTER

A Classified and Tabulated Statistical Review of Structural Activities During 1913

Number of new buildings erected from January 1st to December 31st, 1913

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total Operations.	Estimated Cost.
Two-story Dwellings	102	136	820	683	466	490	225	299	351	336	189	304	4,401	\$9,934,925
Three-story Dwellings	30	36	93	35	49	71	50	36	39	19	48	22	528	2,742,630
Four-story Dwellings	0	0	0	0	0	0	0	0	0	0	12	0	12	102,000
Office Buildings	4	2	0	0	0	0	0	0	3	0	0	0	9	8,650
Office Buildings over two stories	0	0	3	2	1	4	2	2	0	3	0	2	19	2,018,300
Warehouses	3	1	12	10	7	5	1	8	4	6	7	2	72	1,456,000
Factories	7	3	12	10	7	5	1	8	4	6	7	2	72	3,348,800
Engine and Boiler Houses	1	1	0	1	1	0	1	0	0	0	0	1	6	41,000
Foundries and Shops	5	6	8	5	3	10	1	6	4	7	10	1	66	186,750
Stores	2	2	4	2	6	8	5	4	5	0	2	6	46	251,865
Schools	0	0	3	2	1	0	2	1	0	2	0	0	11	2,081,130
Stables	13	5	5	19	7	6	12	6	14	14	6	12	119	135,600
Churches	1	1	2	2	2	4	0	2	0	1	3	0	18	334,750
Frame Dwellings	1	1	2	1	2	4	0	2	4	4	.4	2	27	57,055
Tenement Houses	0	0	6	2	1	4	14	1	4	1	0	1	34	1,138,200
Apartment Houses	0	0	0	0	2	0	0	0	0	0	1	0	3	1,158,000
Parish Building	0	0	1	0	0	0	1	0	0	0	0	0	2	93,000
Municipal Buildings	2	0	1	0	0	3	1	0	1	1	0	0	9	513,350
Places of Amusement	3	0	10	6	7	14	6	3	7	6	9	3	74	1,729,745
Hospitals	0	0	1	0	7	0	0	0	1	0	0	0	4	400,000
Club Houses	0	0	0	0	1	0	0	0	2	0	0	0	3	96,500
Convents	0	0	0	0	1	0	0	0	0	2	0	0	3	57,000
Garages	11	16	35	48	23	24	26	25	29	37	29	33	336	402,350
Power Houses	0	0	0	0	1	1	1	0	1	0	1	0	6	100,500
Depot	0	0	0	0	0	1	0	0	0	0	0	0	1	300,000
Grain Elevators	0	0	1	0	0	1	0	0	0	0	0	0	2	763,000
One-story Dwellings	..	..	..	..	..	..	1	0	1	1	1	0	4	9,100
Gymnasium	..	..	..	..	..	..	0	0	1	0	0	0	1	25,000
Halls	..	..	..	..	..	..	0	0	1	1	0	0	2	21,700
Hotels	..	..	..	..	..	..	0	1	0	1	0	0	1	200,000
Charitable Institutions	..	..	..	..	..	..	0	0	1	0	0	0	2	200,000
Miscellaneous Buildings	19	14	16	11	20	10	18	12	11	12	9	10	162	430,415
Total New Buildings	204	224	1025	829	603	662	367	411	485	457	335	403	6,005	\$30,337,315
Additions	76	96	146	185	183	162	191	138	161	152	129	76	1,695	4,788,495
Alterations and Repairs	262	218	313	360	336	322	329	303	321	307	282	200	3,553	2,799,380
Grand Total														
Heaters													11,253	\$37,925,190
Fire Escapes													553	262,065
Signs													327	87,085
Fireproofing													183	24,970
Miscellaneous Unclassified Work													1	25,000
Total work of all kinds													2,496	439,540
													14,813	\$38,763,850

TWO-STORY DWELLINGS—Including two-story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Totals
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	30	1	1	0	0	0	0	0	0	0	0	1	7	4	0	0	0	3	5	5	2	0	0	2	21	0	102
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	0	1	1	0	0	0	0	0	0	2	0	0	0	0	27	2	6	8	42	2	0	0	37	0	136
March	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	42	13	47	29	4	0	0	0	0	0	0	25	119	14	0	0	81	30	29	90	31	37	0	95	127	0	820
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	10	5	22	0	8	0	0	0	0	0	0	0	16	3	29	8	0	60	49	146	8	148	63	0	21	86	0	683
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	21	1	36	0	0	0	0	0	50	0	0	0	0	51	1	0	0	2	54	35	3	74	46	0	49	42	0	466
June	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	3	6	0	24	1	0	0	0	0	31	0	8	6	1	57	9	2	81	79	22	28	46	0	4	63	0	490
July	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	16	0	1	0	1	0	1	0	0	0	0	14	11	0	0	1	17	26	11	26	90	0	13	0	0	225
August	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	5	1	0	0	0	0	0	0	0	0	0	1	0	6	0	0	17	24	145	20	16	0	0	14	39	0	299
Sept	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	5	0	0	0	0	0	0	0	0	0	24	2	4	0	0	0	21	80	0	81	26	0	38	43	0	351
Oct	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	19	14	0	0	0	0	0	0	0	0	0	1	15	6	0	0	59	0	48	19	73	11	0	19	46	0	336
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	4	0	1	16	0	0	0	0	0	0	0	6	3	2	8	0	0	0	17	8	93	0	0	14	10	0	189
Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	3	0	0	0	0	0	0	0	0	0	139	0	8	0	0	0	0	85	1	21	3	0	0	32	0	304
Totals	30	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	100	125	122	49	79	6	1	0	51	0	31	0	223	220	86	73	9	249	281	701	195	635	324	0	259	546	0	4401

THREE-STORY DWELLINGS—Three story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	Totals	
Jan.	16	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	5	2	0	1	0	0	0	0	0	31	
Feb.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	6	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	22	0	0	0	0	0	35	
March	2	0	8	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	24	1	0	0	0	4	0	4	26	8	0	0	3	0	93	
April	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	3	0	1	0	0	0	0	1	0	0	1	5	0	0	0	0	3	0	0	3	0	0	2	0	35	
May	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	12	6	0	0	0	0	0	0	0	0	7	1	1	0	0	4	1	0	0	5	2	0	0	4	0	49	
June	3	0	1	8	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	4	26	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	8	8	0	2	3	0	0	0	0	1	71
July	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	12	2	0	1	0	0	0	0	0	1	1	0	1	0	7	0	1	0	0	2	15	0	0	2	0	0	50	
August	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0	8	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	7	0	0	0	0	8	0	36	
Sept.	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	8	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	2	0	12	0	0	39	
Oct.	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	3	0	0	1	2	0	19	
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	1	1	9	2	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	1	1	0	4	0	0	0	18	0	48	
Dec.	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	1	0	0	0	0	0	0	22		
Totals	33	3	9	15	9	1	2	0	1	0	2	0	3	1	0	12	0	1	2	2	21	103	18	0	8	0	0	0	0	0	1	3	1	8	37	11	7	0	18	28	5	16	82	12	0	15	37	1	528

WHAT IS THE CONTRACTOR'S GUARANTEE WORTH?

Placing a building contract with the lowest bidder may seem to many a good stroke of business and a money saver. Many builders can testify that on the contrary it has been a very costly experiment. Lot owners deciding to build, should first inform themselves on the building laws and the obligations they assume when letting a building contract to an irresponsible person. They would learn that if any labor bills remain unpaid, or any accounts for building material used in the construction of the house, that labor and material liens will compel them to pay the same or their lot and the house will be sold to satisfy the liens.

It makes no difference if the builder has already received the full sum that he contracted to build the house for—the owner must pay all unpaid labor and material bills. Common sense and good business judgment should prove to every one that when an irresponsible builder or carpenter who works for wages, offers to build a \$5,000 to \$6,000 home for \$1,500 less than a large, successful building company, there is something wrong some place.

The irresponsible builder has nothing to lose and is always assured of good wages and a good profit. He can name almost any price to secure the job and put it so low that no responsible concern can compete. All he

wants is the contract. He can soon get enough cash advanced to take care of his profit and wages.

If, before the house is completed, the lot owner finds that he has already paid out as much as the finished house was to cost him, the shoe-string contractor explains that he made a mistake in estimating—forgot to figure the doors or the windows or an entire floor, etc.—that no one could build a house for that price and that he will do his best to complete it as cheaply as possible. If the owner turns it over to some one else, it would cost him still more money.

The only way that a home builder can protect himself against these irresponsible contractors who explain their ability to figure so low a price because of their having no overhead expenses, etc., is by demanding a "builder's bond." This would promptly eliminate this class of bidders, and if the bond is furnished, it will protect the home builder against liens of any kind and would guarantee him the fulfillment of the contract as per specifications for the stipulated price.

It is, therefore, of the utmost importance that every one who desires to erect a building of any kind on a lot owned by himself, that he demand a building bond from any contractor of whose financial standing he is not absolutely sure.

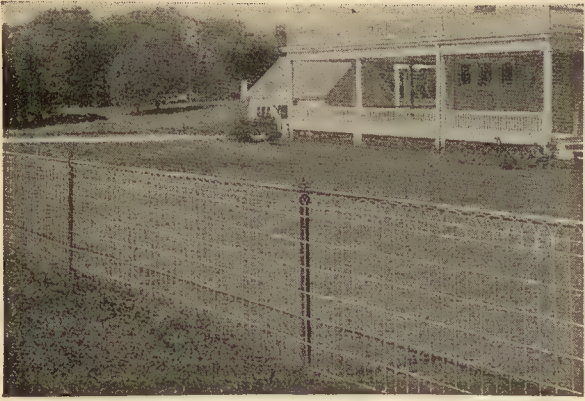
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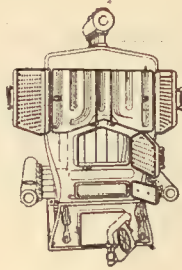
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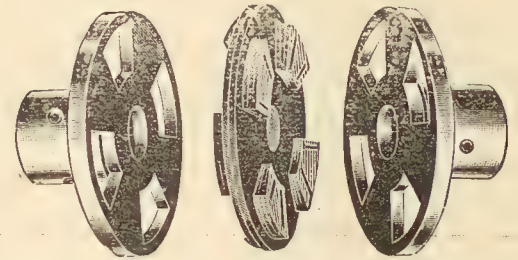
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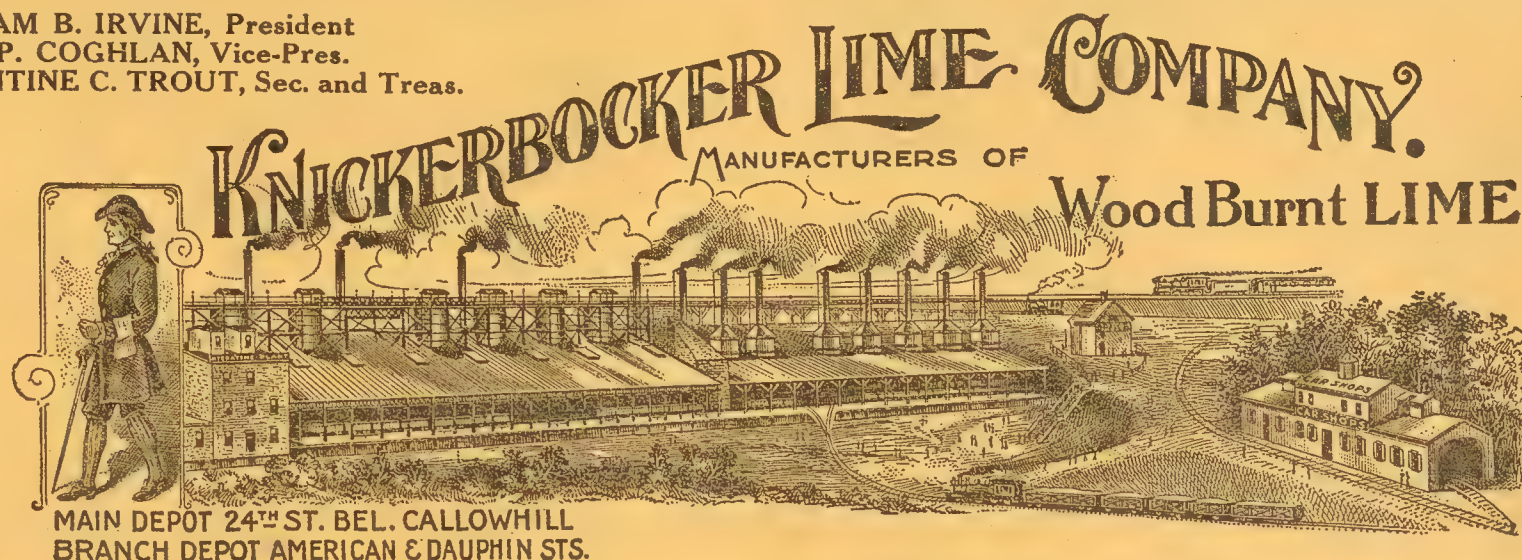
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Vol. XXIX., No. 3.

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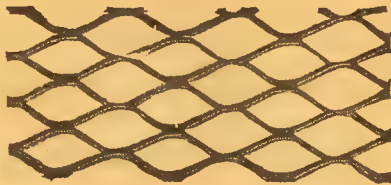
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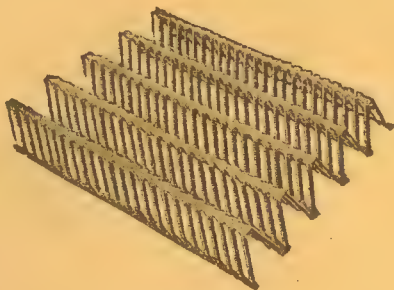
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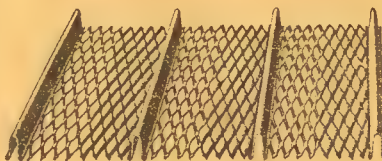


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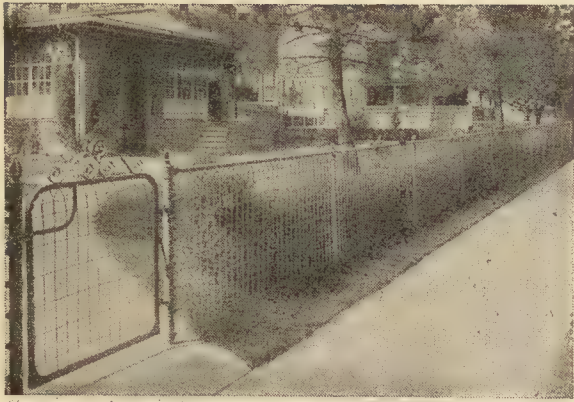
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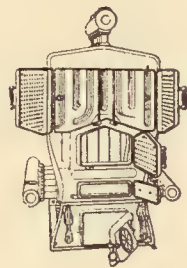
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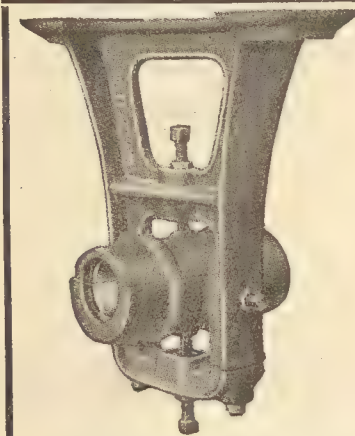
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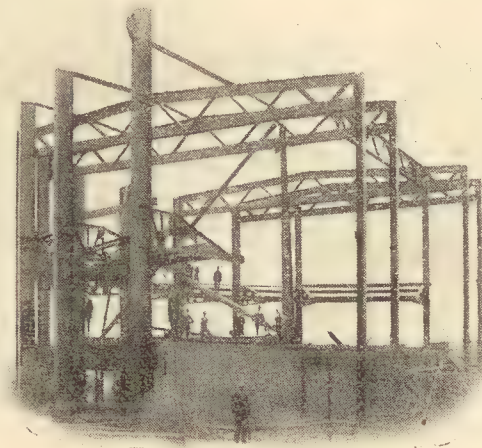
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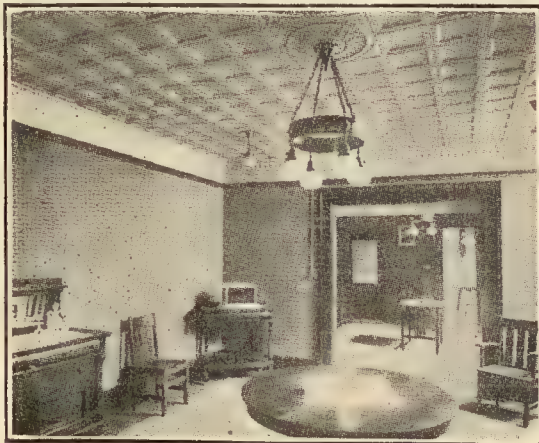


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Vol. XXIX., No. 3.

PHILADELPHIA, WEDNESDAY, JANUARY 21, 1914.

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15 Cents per Copy

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Storage Building, Washington, D. C. Architects, Donn & Denning, Washington, D. C. Owner, Department of Commerce, United States Government. Brick, stone, fire-proof, 2 stories, 30x214 feet, tile and slag roof, electric light, tile partitions, steam heat, expanded metal, water-proofing. Owner taking bids due February 2nd. J. E. & A. L. Pennock, Land Title Building, is figuring.

Stores (2), **Residence** (21), Tacony, Pa. Architect, George S. Idell, 34 South Sixteenth street. Owner, name withheld. Brick, 2 stories, 14x30 feet, slag roof, hot-air heat. Architect taking bids due January 22nd. The following are figuring: F. B. Davis, 35 South Seventeenth street; G. A. Boyd, Twenty-fifth street and Willow Grove avenue; H. E. Sweger, 4435 North Uber street; b. S. Silver, 417 McKean street.

Store and Shop, 879 Main street, Darby, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, W. E. Finigan, 80, 870 Main street, Darby. Brick, 2 stories, slag roof (heat and light, reserved). Plans in progress.

Liberal Arts Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street. Owner, Pennsylvania State College, State College, Pa. Brick and Indiana limestone, 2 stories, 54x11 feet, slag roof, Plenum system of heating, electric lighting. Owners taking bids due January 26th. The following is the complete list of bidders: R. C. Ballinger & Co., 218 North Thirteenth street; Charles McCaul Co., Tenth and Sansom streets; Irwin & Leighton, 126 North Twelfth street; H. H. Burrell, 1204 Chancellor street; H. L. Brown, 1714 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; J. P. Thompson, Real Estate Trust Building; J. W. Emery, 1524 Sansom street; J. Myers & Sons Co., Witherspoon Building; Pringle Borthwick, 8018 Germantown avenue; A. Whitehead, 1624 Latimer street; Stacy Reeves, 2011 Market street; T. M. Seeds, 1207 Race street; F. A. Havens, 845 North Nineteenth street, all of Philadelphia. W. A. Richman, Moorestown, N. J.; Fink & Seidle, Reading, Pa.; David T. Riddle, Keenan Building, Pittsburgh; H. S. Miller, Pittsburgh, Pa.;

Altoona Concrete Construction and Supply Co., Altoona, Pa.; H. S. Miller, Bellefonte, Pa., and George & Borst, 277 South Eleventh street.

Apartment House, 1716 and 1720 North Broad street. Architect, Louis C. Hickman, Fourth and Chestnut streets. Owner, John B. Stevenson, 119 South Fourth street, Philadelphia. Brick, steel and concrete, 2 stories. Plans in progress.

Residence, Media, Pa. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. M. Jacobs, 1312 South Fifth street. Frame, 1½ stories, 34x39 feet, shingle roof, electric lighting, hot-water heating. Revised plans in progress.

Residence, Somerset avenue, Chestnut Hill, Philadelphia. Architects, Furness, Evans & Co., Provident Building. Owner, Edgar H. Butler, 435 Chestnut street. Stone, 2½ stories, slate roof, hardwood floors, electric lighting. Plans completed. Architect ready for bids in about one week.

Y. M. C. A., Coatesville, Pa. Architects, Shattuck & Hussey, 19 South La Salle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick and stone, 4 stories, 96x144 feet, slate and slag roof, electric light, steam heat, marble interior, water-proofing, expanded metal. Architects taking bids due January 24th. Roydhouse-Arey Co., Fidelity Building, & Cramp & Co., Denckla Building, Philadelphia, are figuring, in addition to those previously reported.

Tenant House (add.), Radnor, Pa. Architects, Mellor & Meigs, 205 South Juniper street. Owner, A. J. Drexel Paul, Radnor, Pa. Stone, 2 stories, 20x50 feet, 1 wing, shingle roof, hot-air heat. Plans completed. Architects ready for bids.

Triple Residence, St. Martin's, Philadelphia. Architect, E. B. Gilchrist, Harrison Building. Owner, Dr. George Woodward, North American Building. Tapestry brick or stone, 2½ stories. Plans in progress.

Mining Building, State College Pa. Architects, Day & Klauder, 925 Chestnut street. Owners, State College, Pa. Brick and terra cotta, 2 stories. Plans in progress.

Picture Theatre, Fifty-second and Locust

streets. \$25,000. Architects, Stuckert & Sloan, Crozer Building. Owner, Felt Amusement Co., Fifty-second street and Wyalusing avenue. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting. Plans in progress.

Theatre and Dance Hall, Eighth and Latona streets. Architect, Charles E. Oelschlagel, Harrison Building. Owner, name withheld. Brick and terra cotta, 2 stories, 37x116 feet, slag roof, steam heating, electric lighting. Architect has received bids.

Store Building, Hazleton, Pa. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Gerhart & Friedlander, Hazleton, Pa. Brick, 2 stories, 66x126 feet, slag roof, heat and light plant, hollow tile partitions, metal ceilings, iron doors and frames, steel sash and frames, rolling steel sash, marble interior, expanded metal. Architects have received bids.

Warehouse, Mifflin and Water streets. Architect, C. W. Denny, Hale Building. Owner, Union Petroleum Co., on premises. Brick, steel and concrete, 3 stories, 124x160 feet, metal windows, steel sash, slag roof, elevators (heat and light, reserved). Plans in progress.

Stable, Mifflin and Water streets. Architect, C. W. Denny, Hale Building. Owner, Union Petroleum Co., on premises. Brick, fireproof, 2 stories, 60x80 feet, slag roof. Plans completed. Plans completed. Architect ready for bids in one week.

Residence, Coulter street, Germantown. Architect, L. V. Boyd, Harrison Bldg. Owner, W. P. Barba, care of Midvale Steel Co. Stone, 2½ stories. Plans in progress. Ready for bids in about two weeks.

Residence (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building. Owner, William Fronheiser, Pottstown, Pa. Brick, 2½ stories, electric light, hardwood floors. Plans in progress.

Club House (add.), 1312 North Broad street. Architect, Herman Schweiger, 2452 North Oak street. Owner, Loyal Order of Moose, on premises. Brick, 3 stories. Plans in progress.

Theatre (alt. and add.), Manayunk, Philadelphia. Architect, A. W. Barnes, 130 South Fifteenth street. Owner, Dixie Theatre, 153

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scriptive Catalogue—It's free!**T. E. STEELE**
Pomona Nurseries, Palmyra, N. J.Levering street. Brick, fire-proof, 1 story,
50x70 feet, slag roof, electric lighting. Archi-
tect taking sub-bids due January 19th.**Residence**, Doylestown, Pa. Architect, A. O.
Martin, Doylestown, Pa. Stone, 2½ stories,
30x40 feet, slate roof, electric lighting, hard-
wood floors (heating, reserved). Architects
taking bids due January 23d. Specht &
Sperry, Reed Building, is figuring.**Nurses' Home**, Penn, near Chew street,
\$60,000. Architect, Louis Carter Baker, 34
South Seventeenth street. Owner, German-
town Dispensary and Hospital, on premises.
Brick and stone, 4 stories, fire-proof, steam
heating, electric lighting. Plans in progress.**Printing House** (alt. and add.), 706 to 710
Sansom street. Architects, Brockie & Has-
tings, 1713 Sansom street. Owners, Lea &
Febiger, on premises. Brick, 4 stories, elec-
tric light. Architects taking bids due Janu-
ary 27th. The following are figuring: H. M.
Kister, 621 Sansom street; George & Borst,
277 South Eleventh street; Jacob Myers &
Sons Co., Witherspoon Building; H. H. Bur-
rell, 1204 Chancellor street; J. S. Cornell &
Sons, Land Title Building; F. E. Wallace,
1210 Sansom street.**Church**, Westmoreland and G streets.
Architects, Henon & Boyle, 10 South 7th-
teenth street. Owners, Church of the Ascen-
sion, on premises. Stone, 1 story, 80x160
feet, slag roof, electric light, steam heat.
Basement will be built first. Plans in pro-
gress.**Paint Factory**, Tacony, Pa. Architects,
William Steele & Sons So., Sixteenth and
Arch streets. Owners Lawrence-McFadden
Co., 1400 Frankford avenue. Brick, steel and
concrete, consists of a group of buildings.
Plans about to be started.**Bottling Plant** (alts.), 1508-10-12 Ritner
street, \$3,000. Architect, Charles H. Caspar,
Fifteenth and Arch streets. Owner, Robert
McCarter, 1510 Ritner street. Brick, three
stories. Consists of general alterations. Plans
in progress.**Store Building** (alt. and add.), 331 North
Eleventh street. Architect, Charles E. Oel-
schlager, Harrison Building. Owner, James
A. Humphreys, 1023 Callowhill street. Brick,
two stories. Architect taking bids, due Janu-
ary 24th. The following are figuring: Jacob
Gorchov, 317 Reed street; Frank Lucci, 1345
Christian street; John McKenna & Son, 1032
Race street; F. A. Havens & Co., 845 North
Nineteenth street; E. J. Kreitzburg, 1345
Arch street; A. Whitehead, 1624 Latimer
street.**Residence**, St. Martins, Philadelphia. Archi-
tects, Duhring, Okie & Zeigler, Bailey Build-
ing. Owner, Dr. George Woodward, North
American Building. Stone and frame, two
and one-half stories, 20x35 feet. Plans in
progress. Bids in about two weeks.**Infirmary Building**, Ogontz and Chelton
avenues. Architects, Furness & Evans, Provi-
dent Life Building. Owners, Odd Fellows'
Orphanage, on premises. Brick and stone,
two stories. Plans in progress.**School**, Norristown, Pa., \$50,000. Archi-
tect, Oliver Randolph Parry, 1723 Chestnut
street. Owners, Board of Education, Norristown,
Pa. Brick, fireproof, two stories, tile
roof, electric light, steam heating. Plans in
progress.**School** (add.), Norristown, Pa., \$50,000.
Architect, Oliver Randolph Parry, 1723 Chest-
nut street. Owners, Board of Education,
Norristown, Pa. Brick, fireproof, two stories,
tile roof, electric light, steam heat. Consists
of a twelve-room addition. Plans in pro-
gress.**Bungalow**, Valley Forge, Pa. Architects,
DeArmond, Ashmead & Bickley, 618 Chestnut
street. Owner, Henry Baur, Betzwood, Pa.
Brick, one and one-half stories, 28x32 feet,
shingle roof, hot air heat. Plans in progress.An advertisement should stick out like a
sore thumb without being so sensitive.—
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46 feet deep. The canal has cost \$55,000,000
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lithographs, sign boards, and street car ad-
vertising, out of which he received so little
benefit, as far as he could trace it, that he
regarded the expenditure as money pretty
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peal to architects, builders, building owners,
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you profitable returns.Don't do anything till you do it; and when
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, Laverock, Pa. \$15,000. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Arthur E. Newbold, Laverock, Philadelphia. Stone, 2½ stories, 28x74 feet, shingle roof, electric light, hot air heating. Contract awarded to Specht & Sperry, Heed Building.

Store and Residence, 2638 Kensington avenue. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, Harry Rosenthal, 2631 Kensington avenue. Brick, 3 stories, 17x65 feet, slag roof, electric light, steam heat. Contract awarded to F. G. Myhlertz, 1737 Filbert street.

Store Building (alt. and add.), 29 North Second street. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, H. Fleigleman, 36 North Second street. Brick, 3 stories, slag roof (heat, reserved), metal frames and sash. Contract awarded to Samuel Schultz, 923 East Moyamensing avenue.

Bank (alt. and add.), Broad and Diamond

streets. Architects, Stackhouse & Street, Drexel Building. Owners, Broad Street Bank, care of Dr. J. B. Mayer, Broad and Cayuga streets. Brick, 3 stories, 19x95 feet, slag roof, electric lighting, marble interior. Contract awarded to H. E. Baton, Tenth and Sansom streets.

Mill (add.), Twenty-fourth and Vine streets. Architect, private plans. Owner, Lang Paper Co., on premises. Brick, steel and concrete, 4 stories, slag roof. Contract awarded to W. H. Eddleman, 453 Green lane, who is taking sub-bids.

Residence, Overbrook, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street. Owner, Mrs. C. L. Duncan, Drexel Apartments, Overbrook, Philadelphia. Stone and half timber, two and one-half stories, 60x30 feet; wings, 30x30 feet, tile roof, hot air heating, electric lighting, hardwood floors. Contract awarded to H. L. Brown, 1714 Sansom street.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

B. Madiff (O), Seventy-ninth street and Eastwick avenue. Louis Shpeen (C), Seventy-eighth street and Bartram avenue. Cost, \$4,000. Store and dwelling, brick, 2 stories, 14x41 feet, Eightieth street and Eastwick avenue.

C. Claus (O), 26g2 East Ontario street. Cost, \$8,000. Five dwellings, brick, 2 stories, 14x24 feet, Ontario and Richmond streets.

James Cave Estate (O), Haverford avenue. Cost \$6,000. Manufacturing building,

brick, 1 story, 40x56 feet, Robinson street and Haverford avenue.

City of Philadelphia (O), City Hall. H. H. Wehmeyer, 1004 West Lehigh avenue. Cost, \$30,000. School, addition, Forty-second and Thompson streets. Cost, \$70,000. School, addition, Benner and Ditman streets.

Union Petroleum Co. (O), 1½ South Second street. Cost, \$12,000. Stable, brick, 2 stories, 48x101 feet. Cost, \$900. Shed, McKean and Water streets.

Alterations and Additions

Joseph Oliver (O), 2720 North Fifth street. J. W. Mortimer (C), 3024 E street. Cost, \$1,500. Shop, 2721 North Reese street. Cost, \$1,000. Dwelling, 2720 North Fifth street.

E. F. Henson & Co. (O), 921 North Delaware avenue. William Steele & Sons (C), 1600 Arch street. Cost, \$2,000. Manufacturing building, 921 North Delaware avenue.

Bell Telephone Co. (O), Thirteenth and Arch streets. H. C. Rea (C), 1027 Wood street. Cost, \$400. Exchange, Fourth and Manning streets. Cost, \$120. Exchange, Seventeenth street and Allegheny avenue.

Carson & Toy (O), Twenty-fourth and Wallace streets. R. J. Whitesides & Sons, 2115 Wallace street. Cost, \$2,000. Factory,

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Twenty-fourth and Wallace streets.

G. W. Plumbly Co. (O), 213 North Fourth street. Mitchell Bros. (C), 2125 Race street. Cost, \$3,800. Factory, 213 North Fourth street.

J. A. Calhoun (O), 2001 Upland street. M. W. roun (C), Overbrook, Pa. Cost, \$2,000. Garage, 2001 Upland street.

C. P. Donnelly (O), Germantown and Lehigh avenues. H. P. Werner (C), 3245 Germantown avenue. Cost, \$2,500. Store and dwelling, 2408 Germantown avenue.

W. J. Burham (O), 6025 Market street. W. A. Patterson (C), 5333 New street. Cost, \$750. Shop, 1205 Hamilton street.

Provident Life & Trust Co. (O), Fourth and Chestnut streets. A. P. Fraim (C), 319 Market street. Cost, \$1,100. Store and dwelling, 2660 Frankford avenue.

George B. Evans (O), 1106 Chestnut street. C. J. Platt (C), Arch street. Cost, \$600. Store, 1110 Chestnut street.

Philadelphia & Reading R. R. Co. (O), Twelfth and Market streets. Brown Construction Co. (C), 4600 Main street. Cost, \$1,800. Coal yards, 1.

D. B. Martin Co. (O), Thirtieth and Market streets. F. W. Van Loon (C), Denvkla Building. Cost, \$2,500. Boiler house, Thirty-sixth street and Gray's Ferry road.

Martin Moister (O), 3918 North Reese street. Cost, \$900. Dwelling, 3931 North Fifth street.

Felton Sibley Co. (O), Fourth and Cherry streets. R. M. Peterson & Son (C), 5250 Wakefield street. Cost, \$3,660. Store building, Fourth and Cherry streets.

F. Dietrick (O), 310 South Sixtieth street. Cost, \$2,500. Dwelling, 310 South Sixtieth street.

Edward Flood (O), 2006 Mt. Vernon street. Cost, \$700. Office, Sixteenth and Cherry streets.

Harry Rosenthal (O), 2632 Kensington avenue. F. G. Myhlertz (C), 1737 Filbert street. Cost, \$7,490. Store and dwelling, 2632 Kensington avenue.

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Store and Loft Building, Broad and East Hanover street, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Samuel Kruger, 11 East Front street, and Isaac Smith, Broad and Factory streets, Trenton, N. J. Brick and steel, 6 stories, 40x72 feet, slag roof, steam heat, electric light, electric elevators. Plans in progress. Architect will soon take bids.

Residence, Trenton, N. J. \$12,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John S. Dunham, 164 West State street, Trenton, N. J. Hollow tile and stucco, 2½ stories, green tile roof, hot-water heat, electric light, oak floors, hardwood trimmings, tile bath. Plans in progress.

Residence, Lawrenceville Road, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John L. Brook, care of Brooks Garage, Canal street, Trenton, N. J. Frame and stucco, 2½ stories, tile roof, metal lath, hot-water heat, electric light, hardwood floors, tile baths. Plans in progress.

Residences (10), Riverside, N. J. \$3,500 each. Architect, private plans. Owner, Atterbury Track Realty Co., West State street and Delaware View avenue, Trenton, N. J. Brick and frame, 2½ stories, slate roof, hot-air heat, electric light. Owner sub-letting all contracts.

Residences (4), Trenton, N. J. \$3,000 each. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, Walter C. Slack, West State street, Trenton, N. J. Brick and frame, 2½ stories, slate roof, hot-air heat, electric light. Plans completed.

Store and Residence, Phillip avenue and Nassau street, Trenton, N. J. \$4,000. Architect, private plans. Owner, G. R. Scarlato, care of Henry Taub, 623 South Warren street, Trenton, N. J., builder. Brick, 2 stories, 22x46 feet, slag roof, hot-air heat. Work about to start.

Street Paving, Various streets, Camden, N. J. Engineer, L. P. Farnum, City Hall, Camden, N. J. Owner, City of Camden, care of Engineer, Macadam. Plans in progress. Owners will purchase material shortly.

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NEW JERSEY

Construction News

City Hall (alt.), Haddon avenue, Camden, N. J. \$5,000. Architect, private plans. Owner, City of Camden, care of C. J. Schneider, Chairman, City Hall, Camden, N. J. Consists of interior alterations. Owners taking bids due 8 P. M., January 26th.

Factory (add.), Bridgeton, N. J. Architect, private plans. Owner, Sanitary Can Co., Bridgeton, N. J. Brick, 2 stories, slag roof. Owner will take bids in spring.

Sewers, Bridgeton, N. J. Engineer, private plans. Owners, City of Bridgeton, care of H. Jones, City Clerk. Cast-iron pipe. Owners will purchase material shortly.

Street Paving, various streets, Bridgeton, N. J. Engineer, private plans. Owner, City of Bridgeton, care H. Jones, City Clerk, City Hall, Bridgeton, N. J. Macadam. Owners expect to take bids shortly.

Club House, Absecon, N. J. \$75,000. Architects, Frank Seeburger, Pennsylvania Building, and Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Seaview Golf Club, care of C. H. Geist, President, Land Title Building, Philadelphia. Brick and plaster, 2½ stories, 80x200 feet, green slate roof, steam heating, electric lighting, hardwood floors. Plans in progress. Architects will take bids in about two weeks.

Factory, Haddon avenue, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Horace Wood Manufacturing Co., Seventh street and Erie avenue, Camden, N. J. Reinforced concrete, 4 stories, 82x203 feet, slag roof, steam heating, electric lighting. Plans in progress.

Chapel, Avalon, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, P. E. Rankin, Avalon, N. J. Frame and plaster, 1 story, 30x60 feet, shingle roof. Plans completed. Architects ready for bids.

Residence, Collingswood, N. J. \$4,000. Architect, private plans. Owner, H. H. Rice, Collingswood, N. J. Frame, 2½ stories, shingle roof, hot-air heat, electric light. Owner will soon take sub-bids.

Sewer Extension, Haddonfield, N. J. Engineer (Borough), J. C. Remington, Sixth and Market streets, Camden, N. J. Owner, Borough of Haddonfield, N. J., care of Engineer. Terra cotta pipe. Contract awarded to Bell Bros., Haddonfield, N. J.

Residences (2), Haddonfield, N. J. \$6,500 each. Architect, private plans. Owner, W. S. Capern, Haddonfield, N. J. Stone and frame, 2½ stories, 32x40 feet, hot-water heat, electric light, oak flooring. Owner will soon take sub-bids.

Operation of Residences, Collingswood, N. J. \$3,500 each. Architect, private plans. Owner, Joseph O'Hara, Collingswood, N. J. Frame, 2½ stories, 28x36 feet, shingle roof, hot-air heat, electric light. Owner ready for sub-bids.

Bungalow, Atlantic City, N. J. Architect, R. R. McGoodwin, 34 South Sixteenth street, Philadelphia. Owner, Dr. E. T. Reichert, care of Architect. Hollow tile and plaster, 1½ stories, shingle roof, electric light. Plans

completed. Architect ready for bids in a few days.

Concrete Bridges (3), Mercer Co., N. J. Yardulto-Newton Road. Engineer, Theo. Tobish, Court House, Trenton, N. J. Owner, Board of Freeholders, Mercer Co., care of engineer. Reinforced concrete. Plans completed. Owner ready for bids.

Factory, East State and Monument streets, Trenton, N. J. \$25,000. Architect, private plans. Owner, Enterprise Cigar Co., care of I. Schughart, 7-9 Ewing street, Trenton, N. J. Brick and concrete reinforced, 4 stories, slag roof, electric light, elevator, steam heat (power equipment, reserved). Bids in.

Sewerage Disposal Plant, Trenton, N. J. \$400,000. Engineer, A. Swan, Jr., City Hall, Trenton, N. J. Consulting Engineer, Herring & Gregory, 170 Broadway, New York City. Owner, City of Trenton, N. J., care Frank Thompson (City Clerk), City Hall, Trenton, N. J. Plans completed. Owners will take bids about April 1.

Hotel (alt. and add.), Baltimore Inn, Cape May, N. J. Architect, private plans. Owner, Mrs. Emma D. Harrison, Seventeenth and Harmon streets, Worcester, Mass. Consists of alteration to present building, 4 stories, frame and interior decorations. Plans in progress.

Residence, Cape May, N. J. \$5,000. Architect, Joseph M. Pugh, care of Lybrandt Roos Bros. & Montgomery, Morris Building, Philadelphia. Brick and frame, 2½ stories. Plans in progress.

Sewage Disposal Plant, Cape May, N. J. Engineer, S. H. Townsend, City Hall, Cape May, N. J. Owner, City of Cape May, care of Engineer. Plans completed.

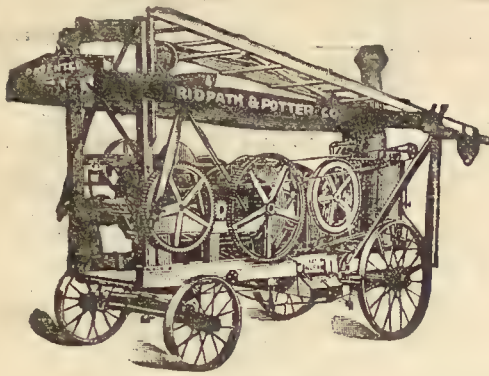
Sewage Disposal Plant, Ventnor, N. J. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Consulting Engineer, Herbert Snow, care of Board of Health, Harrisburg, Pa. Plans completed. Owners ready for bids.

Residence, Cape May, N. J. \$8,000. Architect, private plans. Owner, Otis M. Townsend, Eighth street, Ocean City, N. J. Frame, 2½ stories, 36x42 feet, shingle or asbestos roof, electric light, refrigerator. Owner will soon take sub-bids.

Sewage Disposal Plant, Avalon, N. J. \$25,000. Engineer, R. L. Goff, Ocean City, N. J. Owner, Borough of Avalon and Peermont, care of Gilbert Smith, Avalon (Mayor), and E. O. Howell, Jr. (Clerk), 514 Walnut street, Philadelphia. Sewerage ejectors, concrete tank, 75x40 feet, drainage pipe, valves, etc. Plans completed.

Bank (alt. and add.), 203 South Broad street, Trenton, N. J. \$10,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, Mercer Trust Co., care of W. G. Howell, President, on premises. Brick, 2 stories. Architect selected.

Factory Building, New York avenue, Lawrence Township, Trenton, N. J. Architect, private plans. Owner William R. Thropp & Son, East State street, Trenton, N. J. Brick, steel and frame, 2 stories, 80x190 feet, slag roof, electric light. Owners are sub-letting contracts.



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Children's Home, Perry and Broad streets, Trenton, N. J. \$40,000. Architect, W. P. Enderbrook, American Mechanic Building, Trenton, N. J. Owner, R. C. Church, Trenton Diocese, care of Right Rev. Bishop James A. McFaul, 153 North Warren street, Trenton, N. J. Brick, stone and hollow tile and concrete, 3 stories, slate and slag roofs, steam heating, electric lighting. Plans in progress. Architect will take bids due March 1st.

Factory, Trenton, N. J. Architect, J. Osborne Hunt, 206 East Hanover street, Trenton, N. J. Engineers, N. A. K. Bugbee Co., 206 East Hanover street, Trenton, N. J. Owner, A. Mecky Co., 1705 Allegheny avenue, Philadelphia. Brick and concrete, 90x750 feet, slag roof, electric light, steam heating. Plans completed. Architect will take bids in about one week.

Department Store and Garage, 135-37 East State street, Trenton, N. J. \$60,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, H. M. Voorhees & Bro., 109 East State street, Trenton, N. J. Granite, limestone and reinforced concrete, 4 stories, 60x165 feet, steam heat, slag roof, electric light, sprinkler system, cold storage plant, electric elevators. Architects taking bids due February 3rd. The following are figuring: P. J. Hurley, 1233 Cherry street; F. W. Van Loon, Denekla Building; J. B. Flounders, 1329 Arch street; William Steele Sons, 1600 Arch street, all of Philadelphia, Pa. J. S. Rogers Co., Stanwick, N. J.; Matthews Construction Co., Princeton, N. J.; D. A. Dugan, 404 Greenwood avenue; Morris Bros., Broad Street Bank Building; L. Lawton, Broad Street Bank Building; Scott & Day, 29 Cuyler avenue; S. Mather & Son, 30 South Clinton street; Burton & Burton, American Mechanics Building, all of Trenton, N. J.

Culverts (5), Mercer County, N. J. \$3,000. Engineer (County), Theo. Tobish, Court House, Trenton, N. J. Owner, Board of Freeholders, care of Theo. Hunt, Chairman, Court House, Trenton, N. J. Reinforced concrete. Plans completed. Owner about ready for bids.

Church, Roebling, N. J. \$5,500. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Greek Catholic Church, care of Architect. Frame, 1 story, 35x80 feet, shingle roof, hot-air heat. Contract awarded to Eli Rebecca, Trenton, N. J.

Public School, Ewing Township, near Trenton, N. J. \$15,000. Architect, R. A. Schu-

mann, 932 Lamberton street, Trenton, N. J. Owner, Board of Education, care of F. C. Leaming, Sun Optical Co., State and Warren streets, Trenton, N. J. Brick, 2 stories, 4 rooms, slag roof, electric light, metal lath (heating and ventilating, reserved). Architect selected.

Residence, Collingswood, N. J. \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, H. L. Goerlich, Jr., care of architects. Hollow tile and stucco, 2½ stories, 30x40 feet, tile roof, steam heating, electric lighting. Plans completed. Architects about ready for bids.

City Hall (alt.), Camden, N. J. \$5,000. Architect, private plans. Owner, City of Camden. Owners taking bids due January 26, 8 P. M. J. W. Draper, 436 Haddon avenue, Camden, N. J.; H. L. Foulkes, 566 Line street, Camden, N. J., are figuring.

Artesian Water Works, Woodbury, N. J. Engineer, W. H. Boardman, 426 Walnut street, Philadelphia. Owner, City of Woodbury, care H. Stan, City Clerk, City Hall, Woodbury, N. J. Plans in progress.

Sewers, various streets, Camden, N. J. Engineer, L. P. Farnum, City Hall, Camden, N. J. Owner, City of Camden, N. J., care of Engineer. Brick and cast iron pipe. Owners are about ready for bids.

Playgrounds and Parks, various locations, Camden, N. J. \$50,000. Engineer, L. P. Farnum, City Hall, Camden, N. J. Owner, City of Camden, care of engineer. Consists of planting trees, shrubbery, laying cement walks. Plans soon start.

Theatre, Stores and Apartments, Beach Haven, N. J. Architect, George I. Lovatt, 418 Walnut street, Philadelphia. Owners, name withheld. Brick and frame, 3 stories, tile roof, steam heating, electric lighting. Plans in progress. Architect will take bids in about three weeks.

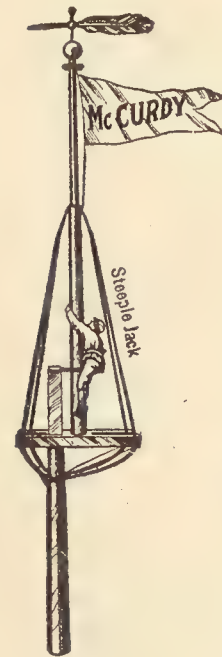
School, Absecon, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owners, Board of Education, care of J. T. Townsend, President, and Samuel Johnson, Secretary, Absecon, N. J. Brick, two stories, 50x85 feet, slate roof, electric lighting. Owners taking bids, due February 12th, 8 P. M.

Residences (4), \$2,500 each, Gloucester City, N. J. Architect, private plans. Owners, Cody & Chessman (builders), Gloucester City, N. J. Brick, two stories, slag roof, galvanized iron cornice, hot air heating. Owners about ready for sub-bids.

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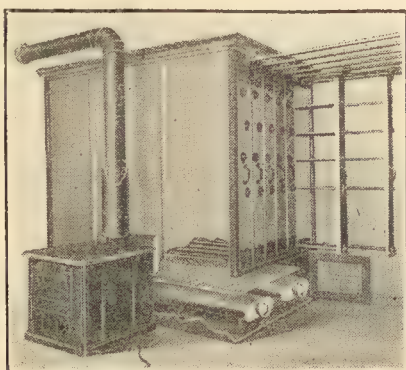
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Residences (operation), Gloucester City, N. J. Architect, private plans. Owners, P. A. Stewart Company, Gloucester City, N. J. Frame, two and one-half stories, shingle and slate roofs, hot air heating. Owners will soon take sub-bids.

Apartment House and Residences (2), Flor-



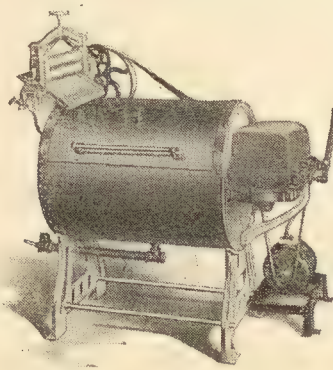
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ence, N. J. Architect, private plans. Owners, Florence Iron Works Company, Florence, N. J. Brick, two and one-half stories, 31x38 feet; one and one-half stories, 16x28 feet; one and one-half stories, 31x28 feet; asbestos shingle roof, hot air heat. Owners taking bids. Hugh B. Miller, Edgewater Park, N. J.; H. H. Williams, Burlington, N. J., are figuring.

Residence, Riverside, N. J., \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, William Miller, Riverside, N. J. Frame, two and one-half stories, 31x32 feet, asbestos shingle roof, hot water heating, electric lighting. Architect taking bids. The following are figuring: George W. Shaner, Palmyra, N. J.; Hugh B. Miller, Edgewater Park, N. J.; George Schele, Riverside, N. J.; J. D. Logan, Beverly, N. J.; Joseph Hammel, Delanco, N. J.

Double Residence, Palmyra, N. J., \$3,800. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, Mrs. E. A. Rogers, Riverside, N. J. Hollow tile stucco, two and one-half stories, 34x38 feet, shingle roof, hot air heating. Architect will take bids in about ten days. Plans in progress.

Store, Office and Residence, Mt. Holly, N. J. Architect, private plans. Owner, Morris H. Keeler, Mt. Holly, N. J. Stone front and brick, three stories, hot water or steam heating, electric light, slag roof. Owner will soon take sub-bids, care of E. H. Burtis, 210 High street, Burlington, N. J.

Factory (rebuilding), High street, Burlington, N. J., \$4,000. Architect, private plans. Owners, Lindabury & Sons, Burlington, N. J. Brick, one story, slag roof. Owners about ready for bids.

Residence, Delanco, N. J., Sinnex tract, \$4,000. Architect, private plans. Owner, Frank Toy, Delanco, N. J. Frame, two and one-half stories, shingle roof, electric light, hot water heat. Owner about ready for bids.

Residences (3 pair), Wood street, Burlington, N. J. Architect, private plans. Owner, E. H. Burtis, 310 High street, Burlington, N.

J. Brick, two stories, slag or tin roof, hot air heat. Plans completed. Owner about ready for sub-bids.

Residence, Edgewater Park, N. J., \$3,500. Architect, private plans. Owner, Hugh B. Miller, Edgewater Park, N. J. Hollow tile and frame, stucco, two and one-half stories, 28x30 feet, hot air heat, shingle roof, electric light. Plans completed. Owner ready for sub-bids.

Residence, Delanco, N. J., \$4,500. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, E. Johnson, Delanco, N. J. Hollow tile stucco, two and one-half stories, hot air heating, shingle roof, electric light. Plans in progress. Architect will take bids in about one week.

Residence, Riverside, N. J., \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, George N. Miller, Riverside, N. J. Frame, two and one-half stories, 30x30 feet, asbestos shingle roof, hot water heating, electric lighting. Plans about completed. Architect will take bids in a few days. George W. Shaner, Palmyra, N. J.; Hugh B. Miller, Edgewater Park, N. J.; George Schele, Riverside, N. J.; G. D. Logan, Beverly, N. J.; Joseph Hammel, Delanco, N. J., will figure.

New Jersey

Contracts Awarded

Storage Building, Riverside, N. J., \$3,000. Architect, private plans. Owner, John Guersgen, Riverside, N. J. Frame, two stories, 40x100 feet, slag roof. Contract awarded to Alex. Bright, Riverside, N. J.

Residences (2), Riverside, N. J., \$5,000. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, Charles H. Peigler, Riverside, N. J. Frame, two and one-half stories, shingle roof, hot air heat. Contract awarded to George Arndt, Riverside, N. J.

BILLBOARDS AND ARCHITECTURE

By J. Horace McFarland, President of the American Civic Association.

Architects have frequently written to me and spoken to me of the way in which their best efforts have been seriously injured through the prevalence of billboards in the vicinity of a great building. I have had to reply that, so long as the billboard men kept on private property, there was as yet very little sentiment and no law to restrain them effectively.

Now comes a distinctly hopeful occurrence. The late Mayor Gaynor, on December 24, 1912, appointed a committee of seven men, to be known as "The Mayor's Billboard Advertising Commission," and he requested this body "to look into the matter of advertising in New York City by means of billboards, sky signs, and kindred devices, and to report

to the Mayor thereon with their recommendations."

Thus there was constituted the first really official commission, not including any of those of us upon whom the billboard interests have bestowed the derisive designation of "nature-lovers." This commission was a municipal body, making a serious investigation. It held many open meetings, and the individuals of the commission undertook much private investigation. The aim was, as expressed in the monumental report published August 1, 1913 (and presumably obtainable of Albert S. Bard, Secretary, 25 Broad street, New York City), to "elicit, by oral testimony, correspondence, and the study of documents,

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evidence bearing on all phases of the subject of outdoor advertising."

The report is extensive and is accompanied by twenty-five pages of illustrations to prove the statements made. These illustrations are of the sort to make a good citizen "tear his hair" with chagrin at the contemptible commercialism of business men who would insult Grant's Tomb with a proximate billboard, and who would consent to the creation of such filthy nuisances as are shown back of these glaring, monstrous signs.

Mayor Gaynor's committee makes the following pregnant observations:

"It is entirely optional with a person whether he will read advertisements in newspapers and circulars; but an outdoor advertisement is thrust upon his attention whether he will or not. * * * Outdoor advertising so intimately affects the public welfare that its governmental regulation appears to be entirely justifiable in the interest of the greatest good to the greatest number. Indeed, to fail to restrain and regulate it is to abandon our communities to serious evils."

Upon the architectural question the committee has reported that there exist "enormous, unsightly, and, at times, disgusting billboard advertisements, which neutralize the effects produced by the exercise of our finest genius and the expenditure of vast sums of money."

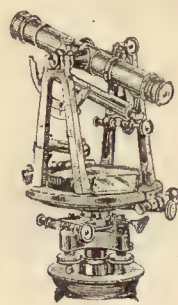
The committee quotes somewhat briefly from a recent report on new sources of city revenue for New York, in which this significant paragraph occurs:

"In many important parts of the city there is a strong tendency to secure the publicity income, and to postpone the full utilization of the land on which billboard taxpayers and electric signs are erected. The erection of such structures also has an injurious effect upon adjoining realty values and constitutes, in many cases, a real nuisance."

It is also urged that billboards increase the fire risk of many neighborhoods, and that "billboards in the subway and elevated stations interfere in many cases with the free use of the platforms, confuse the sight, and prevent the recognition of the station signs," and, even more significant, that "illuminated signs, and flashing signs in particular, in some localities interfere with sleep in neighboring hotels and private residences."

In this respect it is exceedingly interesting and encouraging to note that, in a recent suit brought in New York City, in which the landlord of a hotel sought to recover rent for rooms in his hotel, which had been abandoned by the tenant because of the electric sign, the light from which made the rooms uninhabitable, a decision was rendered to the effect that the erection of the sign amounted to "constructive eviction," and the landlord was thereby restrained from recovering rent. On this decision, the "New York Evening Post" offers the following very pertinent comment:

"Well done, Justice Wilson! But how about the people on the outside of the hotels, and of the 'taxpayer' one-story houses, with monstrous electric signs on top of them, and



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of the vacant lots with hideous billboards surrounding them—in short, the people of the city at large who are pestered with alternating flashes as they walk the public streets, and whose enjoyment of whatever is beautiful in the city is marred by disfiguring advertisements? Are they not, in a great measure, subjected to 'constructive eviction' from their own city? And, as it hardly to be expected, or even desired, that they should actually move out of the city, as Mr. Dinwiddie and other tenants moved out of this hotel, would it not be a good plan to turn the tables—to 'evict' the offending billboards and electric signs instead of the people?"

But best of all, in this calm, judicial, fair-minded report, which takes into account all the conditions met in a great commercial metropolis, is this great declaration:

"We believe that the time has arrived in this State when public sentiment will warrant writing the word 'beauty' into the constitution."

The findings of the committee, which I may not undertake to review very fully, include a showing of all efforts, wherever made, to restrain billboards anywhere in the United States, a statement of the laws as they now stand, a review of all billboard regulation, by taxation, restriction or otherwise, and end in seventeen definite recommendations, which are, while very reasonable, of a character to make the billboard men most unhappy if they are acted upon. It is stated that a number of suggestions made in this report will require constitutional amendments, and suggested forms are given for these constitutional amendments and for the proposed regulations.

TOOL CHEST ROMANCE.

It is plain that I love you, he began.

Is that on the level? she asked.

Haven't I always been on the square with you? he urged.

But you have so many vices, she remonstrated. Not a bit of it, he asserted.

What made you brace up she queried coquettishly.

The fact that I saw, he replied with a bow.

I ought to hammer you for that, she answered saucily.

Come and sit by me on the bench, he urged.

Suppose the others should file in? she murmured.

You couldn't let your arms compass me, she continued.

I know a preacher who's a good joiner, he suggested.

Promise not to chisel him out of his fee, she requested.

That wouldn't auger well for us, he answered.

Shall I wear the blue print? she asked, as they started for the license.—Exchange.

WATERPROOF CONCRETE.

What the University of Wisconsin Has Been Doing in Perfecting This Material.

The College of Engineering of the University of Wisconsin has been carrying on experiments to determine the permeability of undried concrete, and tests already made show that good results are obtained if the concrete remains in the mixture from two to three minutes when dried materials are employed. But if the sand, gravel or stone is damp, a much longer time is required.

The use of wet sand is not advised if watertight concrete is desired. The experiments showed that mixtures of 1 cement, 1½ Janesville sand, torpedo grade, and 3 Janesville gravel, when mixed to a wet consistency, are impervious to water when subjected to a pressure of 40 pounds per square inch. Mixtures as lean as 1 part cement to 6 parts of gravel (a graded mixture) have been made impervious at high pressures by using care in proportioning the amount of water and in mixing batch. The specimens used in these tests are cylindrical in form and so made that the faces of the cylinders, 13½ inches in diameter, are exposed to the predetermined water pressure. The thickness of the concrete through which the water must pass can be varied from 4 to 18 inches. A test is now being made to study the effect of varying the percentages of cement and water, the gradation of the sand and gravel, the proportioning of the mixture and the thoroughness of mixing, on the hardening of the specimens.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

SOME SUGGESTIONS ON ESTIMATING

By Henry A. Hoyt.

All contractors are by necessity estimators. Either they estimate the cost of building construction themselves, or, in the case of larger concerns employ estimators, or "quantity surveyors," as they are known across the water. In either case, the final success of a building contract depends vitally on two results—first, getting a price for it, and second, erecting the said building for the said price, plus the desired margin.

Recently a card has been circulated in building circles bearing a sort of advertisement, and on one side the following: "Contracting, Like Horse Racing, is Due to Different Opinions." Usually the "different opinion" is the direct result of great differences in the method and manner of estimating the cost of construction. It is probably a fact that no two contractors prepare estimates and recapitulations of materials and labor in the same manner. This is not necessary always, but some system or near-system should be employed. Most of us have seen the picture entitled "The Successful Contractor," showing a builder at his desk, thinking, "What did I forget?" This, unfortunately, is too often true. The writer has seen successful estimates prepared on slips and scraps of paper and used envelopes and the like, but the element of success and certainty involved would have been more secure, and at least more satisfactory had more system been used. It is of secondary importance, the kind of system adopted; in fact, it is just as bad to over-systemize the business of estimating till the system eventually swallows up the business in the deadly overhead expenses. One very well-known general contractor of the city of San Francisco uses large blank books, weighing many pounds (and incidentally he also weighs many pounds), and everything is kept in this book, even to the minor figures used to get off the quantities. It finally resembles a school boy's scratch pad. Another well-known contracting engineer of San Francisco, a man of a vast amount of experience, keeps everything pertaining to one estimate in a heavy, large manila envelope, and these are filed away eventually by name and number. A certain well-known contractor in the interior of California uses a large "I-P" loose-leaf book, and invariably carries it around the State with him wherever he goes. He became known to several of us as the "black book man." Another interior contractor once made up his figures in a certain school competition in the lobby of the local hotel, wrote out his bid and walked away, leaving his estimate sheet on the hotel desk. One of his competitors walked off with it and then cut his own estimate. Very foolish and careless of both of them, but it so happened that neither of them got the contract. One contractor on a large public building competition in southern Oregon had his bid neatly

typewritten on his stationery with the space for the final amount left blank. This he filled in at the desk of a local bank and carefully blotted the amount with a new blotter. Soon another contractor sought out the same place to fill out his bid and learned the amount of the first man's bid from the blotter, mirror, etc. Sounds "fishy," but it's true. All of the foregoing are incidental reminiscent experiences only and show the great diversity of methods employed by builders. Probably more errors creep into estimates, especially errors of omission, by the use of printed estimate forms. No two buildings are sufficiently alike to permit of this form or blank being a success. Many of the printed items will be used on one building and not on the next, and if you place no figures after an item not involved in the structure in question, you are very liable to omit some figures from some other item of vital importance to your recapitulation. This opinion on the "printed blank" question will be disputed by some good estimators.

When you get a set of plans to bid and estimate from, first make one person responsible for the recapitulation of the estimate. Let that person read the entire specifications through, examining the plans meanwhile carefully and explicitly. Then make up a full and complete tabulation, synopsis or recapitulation, and have it so correct that you can depend on it as final, knowing that when all items are filled in and carried out the estimate will be complete. The correct way to take off the estimate is "as the building would be built." Always remember "order is heaven's first law," and make out your estimate in its regular order. Some make up the estimate alphabetically, but "elevators" and "excavations" are rather far apart in the usual order of building erection. Decide early what portions of the work sub-bids will be asked upon, and even if sub-bids are taken, "take off" the same yourself if you have time and are sufficiently capable. Get several bids on each item asked for if possible. It is hereby respectfully admitted that the ideal method is no sub-bids on anything till after you get the contract signed for the job, but as long as present methods of contracting exist on this coast sub-bids will continue to be invited and used by general contractors as a class. Make mental or written notes of errors or omissions in drawings or specifications, and if serious, take it up at once tactfully with the architect, but do not take up minor discrepancies with him that would make no difference with your estimate. Your time should be worth as much as his, possibly more.

Checking up all quantities and minor figures in an estimate should not be necessary if the work has been well and conscientiously performed. There are many differences of opinion on this item of re-checking one's estimate,

but if many jobs are figured it is enough work to estimate once. (One estimates for nothing enough usually.) If the estimate is expected to be re-checked one gets into the serious habit of depending too much upon the said re-checking. The crucial test of a contractor's fitness for his work is his ability to handle men and operations successfully, but second only in importance is his ability to estimate the probable cost of construction. These two qualifications are not usually found in one man, but if so found he should make a successful contractor. Often successful contracting firms consist of two persons—one whose special aptitude is organizing and handling men, and another whose natural bent and training fit him to estimate costs, keep records, compile statistics and cost systems, and to act with his partner in an advisory capacity on business and buying matters. This ideal combination originates usually from a good foreman and a young civil engineer.

Evidently the building business had its drawbacks and failures early in the history of the world, else the following would not have been a seemingly necessary precept of Holy Writ: "For which of you, intending to build a tower, sitteth not down first and counteth the cost, whether he have sufficient to finish it? Lest, haply, after he has laid the foundation, and is not able to finish it, all that behold it begin to mock him, saying, 'this man began to build and was not able to finish.' " This would probably be the experience of many an owner were it not for the bravery and courage of the average contractor, who "sitteth down first and counteth the cost," and then "puts up a bond and takes all the chances."

It is convincing that many low bids, and high ones too, for that matter, are, as Dr. Johnson says, "the result of sheer ignorance" as much as a desire in the face of common experience to prove that two and two equal five. Very seldom are serious mistakes made when one follows his own good judgment. There is no such thing as time in proportion to cost in estimating. On some buildings an estimator might spend three or four days on millwork alone, while on another a few hours would suffice. A thousand dollars of hardware might occupy as much time to take off as ten or twenty times that amount in brick or concrete work. Always keep the sub-totals of your estimate separate and complete in themselves. You can then always with safety alter or change price or quantity without making a risky change clear through the estimate.

Some contractors add the profit desired to each item or sub-heading; this is wrong practice. Get the exact cost and add "all the profit at once." Never under any circumstances base your final proposal on an estimated cost given by the architect or engineer in charge of the job. Many times this pre-estimate is correct in quantity, but not in price; often the reverse is true. Depend upon yourself and not the other fellow. Also be your own price maker, even if your estimate is made up by an employee. The diversity of figures of sub-contractors requires your best

judgment always. It is not always wise to use the lowest sub-figures you are offered, even if the low man is presumed to be entirely responsible. It usually leads to trouble and dissatisfaction later. Avoid verbal sub-bids, and be sure that bids tendered read "according to plans and specifications." Do not use figures based on quantity lists other than your own when your contract is over the plans and specifications.

Be very careful of making up estimates from some of the estimate books published. There are a large number of them that are of valuable assistance, but entirely inadequate for the constantly changing conditions and prices of the building industry. Be your own estimate book as far as you can and keep a clear record of costs. All of the foregoing suggestions and experiences are somewhat rambling and desultory, but may prove of more than passing interest to other contractors.

Several years ago there appeared in this magazine a summing up of the general qualifications of a contractor, taken from a speech of a prominent New York City contractor, and the wording was so true, so real, and so worthy, that it will readily bear repeti-

tion here: "There is no class of work that takes as varying qualities or so many qualities as contracting. It appeals to men who are optimistic and to those who have born in them the longing for doing things. The contractor must be a man, first, of that most uncommon thing, common sense; and he must have physical sense, the sense that tells a man without calculating where lies the center of gravity; the sense that tells a man values without estimating, the sense that tells a man quantities without measuring. He must have magnetism in order to gather his men about him. He must have reputation for justice in order to hold them. He must be forceful in order to inspire energy in others. He must be a lawyer and a buyer. He must have the ingenuity of the inventor, and the grasp of the field marshal. He must be a diplomat and he must be a politician. He must also know when not to be a politician. He must be a financier, and I regret to say, in these days, an advertiser, and he must be a prophet." And the writer most respectfully adds to the opinion of this eminent contractor the words, "and then some."—"San Francisco Architect and Engineer."

THE TEACHING OF ARCHITECTURE ON THE PACIFIC COAST

Paper Read by Warren C. Perry before the Architectural League of the Pacific Coast at Portland, Ore.

I have put down as a title to this paper, "The Teaching of Architecture," partly because it is necessary in such cases to forestall inquiry and possible derision by having a title; and partly because it seemed less overwhelming to live up to "The Teaching of Architecture" than to the mighty subject of "Education" which our friend, Mr. Lawrence, was so good as to flatter me with.

It has doubtless occurred to you already, what I find myself conscious of, to-wit: "That it scarce behooves one of my age" to be prattling on a topic that greybeards are said to beat their wits' ends over, that it would be far more fitting for me to come before you in the capacity of a trembling student to be catechised than staggering under the tremendous title of "Professor," which I regret to say does not belong to me, save by the most extreme courtesy.

Having thus made my excuses for appearing to pose thus, as an authority, I find myself really very glad to have this opportunity of setting down roughly a number of things that have come to my mind during my brief two years' teaching experience. I will try to avoid ideas which have come to me through others, and set down conscientiously my own alone, though of course many of these will be common gossip for most of you.

First: A purely selfish observation—he who teaches learns ten times as much as he

who is taught—therefore, let us one and all start "ateliers." I think that this is more true of architecture than of almost any other subject, for it invites to a sublime degree, the study of not only the "five orders according to Vignola," God forbid! but of humanity, of as many individuals as one has disciples,—each one a living bundle of enthusiastic tendencies, good, bad and indifferent.

If architecture be not the study of humanity, whatever is it? It means the being prepared (for a stated period each day in my case) to face a thousand searching questions on the history, theory and practice of this vast subject, which are being constantly concocted by an interactive group of unfettered and exceedingly restless imaginations. Happy is he who has left a row of conveniently disposed loopholes along the pedagogic path, through which he may slip, on occasions, with small loss of dignity, and, I may add, thorny is the way of him who has been wont to say with firmness—"Never do this!" "Always do that!"—for he will be tripped headlong over his own foolish phrase, again and again. Also this: A class may forget the name of the architect of the Parthenon, or the principles of Gothic construction, but never will it fail to call to mind a famous building which flaunts itself in the face of one of your "Don'ts" or "Always's," however obscure that one may have been.

But I digress. It is my intention to set down the three systems that prevail for the teaching of architecture, briefly and comparatively, and then to draw conclusions therefrom. These are, namely: the Ecole des Beaux Arts in Paris, the educational work of the American Society of Beaux Arts Architects, and the school of architecture at the University of California, with all of which I have been somewhat familiar.

The Beaux Arts in Paris, where I was a student for two years and a half, is, as we all know, the distinguished prototype of many schools in America, and is, I think, the most efficient and at the same time the most elastic system in practice. But I wish to make myself clear here, upon one point. I refer to the organization of the school, not to the "Projects" produced therein, and while I am loyal to "l'Ecole" to the point of sentimentalism, I am fully aware that it is the outgrowth of very different conditions, a different people, and a different culture than ours. There is nothing, you will agree, more exasperating than to have someone say, upon hearing that you have worked in Paris: "Oh, you do nice Frenchy things!" or "horrid Frenchy things," as the case may be. I remember, on the eve of my departure from California, a certain "near-lover" of the arts, who rode on a street car two miles beyond his street, in a vain endeavor to convince

that I was headed straight for architectural damnation; in going abroad to study.

The school in the rue Bonaparte in Paris is, as most of you know, only a rendezvous, and represents the theoretical part of the work. The actual study of design is carried on in a number of "ateliers," presided over by the most distinguished practicing architects of France, which are situated variously in that part of Paris lying between the boulevard du Montparnasse and the river.

The keynote of this situation is to me wholly logical, being based upon the covering of certain work rather than a number of years residence. One passes entrance exams. (is he is lucky); these come every six months and are competitive, admitting some sixty men each time out of six hundred applicants. This sets, at the very beginning, a high standard of excellence, making membership therein alone, of a distinctive value. It furthermore insures a degree of proficiency in fundamental subjects, principally, and I do not hesitate in so saying, descriptive geometry. O, Descrip! What sins are committed in thy name! How many of those ardent ones who indulge themselves in the design of buildings, really feel the bones of their recreation, really know clearly and sharply in every chink and corner how they will look in execution? How many "cartouches" alas! cover surfaces that come altogether along strange and uncouth lines? I am sure that no one who has been patted on the back by that fine old apostle of "Geometric Description," M. Pillett, can ever be aught but a firm believer in its importance.

Success in the entrance exams. of l'Ecole places one in the "second class" where, if

(Continued on page 53.)

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Editorial Comment

In the haste incidental to preparing copy for last week's issue of the "Guide," an unusually large number, four omissions were made in the list of firms which did work or whose material was specified in the construction of the new Hotel Adelphia, to wit: All of the face brick used in the building was supplied by Mr. S. B. Dobbs, 1218 Chestnut street, Philadelphia; the cement floors and asphalt waterproofing furnished by the Vulcanite Paving Company, and the hardwood floors laid by Heaton & Wood. The marble work in the barber shop was done by the firm of Belfi Bros. & Co., 22 South Nineteenth street, Philadelphia, specialists in fancy marble and tile work.

Returns from 69 cities of the United States show building permits for the year 1913 totalling \$722,378,100, as opposed to \$862,209,348 for 1912, a loss of 16 per cent. Despite this apparent falling off, returns from individual cities show gains averaging from slight and average to unusual and remarkable. New York City is the heaviest loser among big cities, with a loss of 44 per cent. Philadelphia shows a gain over 1912 of 4 per cent; Pittsburgh, a gain of 30 per cent. Chicago registers a 2 per cent. gain over 1912, and Baltimore an increase of 12 per cent.

Boston returns a 17 per cent. loss, Washington a loss of 61 per cent., St. Louis a loss of 26 per cent., and Denver a loss of 47 per cent. The general table follows:

City.	The Year 1913.	Gain.	Loss.
Akron	\$5,243,315	9	..
Atlanta	5,112,944	..	49
Baltimore	8,988,050	12	..
Birmingham	6,429,737	69	..
Boston	17,463,330	..	17
Buffalo	13,109,000	1	..
Cedar Rapids	4,229,600	80	..
Chattanooga	1,033,880	..	27
Chicago	89,495,000	2	..
Cincinnati	8,348,432	..	7
Cleveland	23,841,160	31	..
Columbus	5,508,400	18	..
Dallas	8,480,580	..	69
Dayton	5,090,974	20	..
Denver	2,797,148	..	47
Des Moines	1,755,759	..	18
Detroit	30,432,380	19	..
Duluth	4,026,011	50	..
East Orange	1,712,981	8	..
Evansville	1,870,437	22	..
Grand Rapids	4,169,000	70	..
Hartford	5,784,751	..	22
Indianapolis	9,361,973	2	..
Kansas City	10,578,162	..	15
Lincoln	1,678,350	12	..
Los Angeles	31,641,921	1	..
Louisville	4,054,180	..	38
Manchester	1,652,889	..	39
Memphis	3,949,368	..	45

Milwaukee	13,647,624	..	10
Minneapolis	12,857,935	..	10
Nashville	1,666,602	11	..
New Haven	4,790,151	1	..
New Orleans	4,087,261	17	..
New York—			
Manhattan	85,403,254	..	55
Bronx	21,701,453	..	40
Brooklyn	34,762,506	..	14
Boro of Richmond	3,377,109	..	1
Boro of Queens	17,514,955	..	11
Total	162,759,277	..	44
Oakland	9,106,191	1	..
Omaha	4,110,733	..	9
Paterson	1,476,666	..	30
Peoria	2,359,124	48	..
Philadelphia	38,763,850	4	..
Pittsburgh	15,470,955	39	..
Portland	12,956,915	..	11
Richmond	3,636,476	..	42
Rochester	9,642,124	..	20
Salt Lake City	2,153,860	..	59
San Francisco	21,037,264	..	10
St. Joseph	876,003	..	22
St. Louis	15,340,112	..	26
St. Paul	9,441,221	16	..
Scranton	1,486,305	..	6
Seattle	9,321,115	11	..
Shreveport	1,332,590	..	12
Sioux City	2,056,072	..	7
South Bend	890,465	..	..
Springfield, Ill.	799,514	..	44
Syracuse	5,206,768	16	..
Tacoma	2,474,364	32	..
Toledo	5,986,079	12	..
Topeka	928,767	..	2
Troy	2,564,178	80	..
Washington	8,396,701	..	61
Wichita	1,083,465	..	9
Wilkes-Barre	1,922,348	..	18
Worcester	4,909,313	..	25
Total	\$722,378,100	..	16

* * *

The December showing of building operations throughout the country is eminently satisfactory in comparison to the returns for other months during the latter half of 1913. There is a loss as compared with the operations of December, 1912, but it is a smaller loss than that shown in November. The reports from 70 cities received by the "American Contractor," New York, show that building permits reached a total valuation of \$57,266,319, as compared with \$60,280,282 for December, 1912, and a specially interesting circumstance is that a number of cities show rather phenomenal gains. Thus the permits issued in Buffalo for the month gain 257 per cent.; in Cedar Rapids, 216 per cent.; in New Haven, 516 per cent., and in Wichita, 649 per cent. Of the 70 cities in the list, 33, or almost one-half, show gains, important improvement, besides the above, being recorded as follows: Birmingham, 136

per cent.; Columbus, 174 per cent.; Oakland, 108 per cent.; St. Paul, 126 per cent.; Topeka, 114 per cent.

* * *

Writing of "The Art of Architecture" in the January number of "Arts and Decoration," Mr. Charles Matlack Price delivers himself of certain exceedingly clever and well-considered ideas regarding this "oldest of the professions."

"At one time, and for very fair reasons," writes Mr. Price, "architecture lost its claim to a place among the Fine Arts, though few if any will be found to-day who would attempt to rate 'the art of building beautifully' in any wise differently than 'the art of painting beautifully.'"

"The mere fact that copying will not develop architecture must prove that architecture is an art. One often reckons an able copy of a famous painting as clever, but never as great. If it were not that the hand of the master must make itself felt, we would all be artists, and it is because the hand of the master does not exist in many of us that we fail ever to become artists, try as we may."

"One of the most curious things about architecture, and a fact which becomes apparent only upon a very intimate study, is that, though architecture may appear to depend upon material forms, may seem to be a very definite organism to reckon with, it is in reality dependent for its true significance upon what was spoken of in painting as 'the hand of the master.'"

"One architect may conscientiously develop an architectural project from some work of the past, and entirely fail to produce in its execution a design even creditable. Another, governed by exactly the same inspiration, may produce a masterpiece."

"Few architects of this country or of this age have left such a mark as is left in the work of the late Messrs. McKim & White. Few have shown, or are showing, evidence of architectural sensitiveness developed to so high a degree, and that this thing we call architecture is the gift of the very few, is proven by the fact that even the men who were working with the masters were not able to carry on the torch."

"Of architects to-day in this country, one of the most remarkable is certainly Charles A. Platt, and this by reason of this endowment with the rarest qualities to be found in an architect. Mr. Platt has made the architecture of the Italian Renaissance his own, in a peculiar way at once insinuating and forceful. He has not copied it, but has made it serve his thoughts. Having selected it as the outward medium of his architectural expression, his art has prevented it from becoming a copy or even an adaptation. One has never questioned the propriety of his use of the style, and this is because he has not exploited it as a short cut to expression, but reverently studied its finer points until he can work in it idiomatically, and, we must suppose, with all the sympathy and a good deal of the enthusiasm of the early Italian architects."

"There might be developed a great deal clearer sort of architectural criticism than that which often finds its way into print if critics would be a little more careful in establishing their premises. In other words, a copy is not to be confused with an adaptation, and, even more particularly, an adaptation is not to be confused with an original. Furthermore, if we must praise or condemn, as seems appropriate, by no means let us take any such untenable stand as to assume that an original is good because it is an original, or an adaptation poor because it is not an original."

"It had been proved long since—even if it had not been left for Mr. Platt to prove—that a good adaptation is much more desirable than a poor original. The tower of Madison Square Garden, in New York, is not to be thought less of because it is based upon the Giralda in Spain, because it might have been much worse by reason of not being based on it."

"And the whole theory of adaptation is not quite so accurately understood as it might be. Certain sorts are to be disparaged, others, such as Mr. Platt's, call forth spontaneous and widely echoed admiration. It would seem that there must be some reason for this—that the success cannot be due either to luck or to a mere scholarly knowledge of the original which has inspired the adaptation. The designer must feel the style in which he is working, and in order to do this he must be very sincere."

* * *

The widespread interest manifested in the question of limiting building heights here and in New York City, lends a peculiar value to the paragraph quoted below, summarizing European views on the subject. The paragraph is from the January number of the "American Carpenter and Builder," and here follows:

"Berlin permits a maximum height of 72 feet, but no buildings can rise higher than the width of the street. The maximum height in Cologne and Dusseldorf, known as the 'park city' of Europe, is 56 feet 6 inches. Munich draws the line at a building having a ground floor and four stories. In London, in a street less than 50 feet wide, all buildings are limited in height to the width of the street. In wider streets the height is 80 feet. Paris does not permit a height greater than 65 feet, and in Rome the limit of height is set at 78 feet 6 inches."

* * *

An article, elsewhere in this number, on "Billboards and Architecture," by J. Horace McFarland, President of the American Civic Association, will repay careful reading. This billboard nuisance will ultimately have to be met here as elsewhere. Anything of an informative sort showing in what manner other communities are dealing with the evil cannot fail to be in the highest degree interesting as well as instructive. The billboard nuisance has been carried to extremes.

One way to escape the income tax is to quit advertising and do less business.

THE TEACHING OF ARCHITECTURE ON THE PACIFIC COAST.

(Continued from page 51.)

he wishes, he may do "second class projects" up to his fateful thirtieth birthday, on which date he must leave, whatever his status. He need render but one project a year to remain on the rolls, that is all. If, however, as is usually the case, he desires to advance, there are approximately two years of drawing, perspective, stereotomy, higher mathematics, and construction, besides six values in architecture between him and the coveted "first class" from which, in the course of time, after gaining ten values in architecture, he is privileged to do his "diplome" or thesis.

But see what freedom this leaves the man! He may work in an office, thereby earning the money to continue a four months more at school; he may travel if commanding the means, almost whenever the mood takes him. He is at complete liberty to establish his own scheme in life. He is upon his own responsibility from the very first, for, saving perhaps in the atelier, the school is the most impersonal organization in the world. There is no molly-coddling there, anyway, and in my recollection there were certain crises, crises which came pretty near to counterfeiting the stern realities of life. A great school, deeper seated than in the personnel of its staff, its sound organization has brought it down to us from the days of Louis the Fourteenth, majestically surviving all the fads and caprices that every few years seem to change the standard aspect of its work. It is a mighty institution. If you do not believe it, look at the last thirty years of American architecture.

The next system I mentioned for discussion is that of the American Society of Beaux Arts Architects, which is based on the Paris school, with this great difference, that we, on the Pacific Coast, are as far again from New York as New York is from Paris. Imagine men in New York rendering problems in Paris! You who have worked in the Ecole des Beaux Arts remember the few sets of drawing, which represent the "regional schools" at Lille, Marseilles and Lyon, and how "out of things" they seemed, developed as they are, only a day's journey from the center, and that despite the fact that their patrons are Paris men. Which brings me naturally to the thing that I feel most deeply in all this educational work—that teaching must be personal, that the teacher must give of himself to the men under him; it cannot be conducted at arms' length or, what is worse, at continent's breadth.

We make use at the University of California of as many of the Beaux Arts Society programs as we can fit into our calendar, but during last year, especially, many of them have been rather poor; ambiguous in language, and replete with such easily foreseen faults as requiring drawings at scales too large for the paper demanded, etc. All this could have been averted, or at least readily corrected, had the headquarters been in San Francisco instead of New York.

I do not mean to attack the Beaux Arts

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Society. Its work is excellent, and it will continue, I hope, to prosper, but it benefits most the region immediately around New York, which, of course, was the original intention. I maintain that it is for us a little too much of a "correspondence school" and with profuse apologies where due, I insist that whatever may be true of other lines of work, Art, and Architecture in particular, cannot be taught through the mails.

Finally, to sum up the situation at the University of California, we have a collegiate school of architecture, which, under the devoted guidance of John Galen Howard, has been built in the course of a decade from out of rather hostile material, a flourishing and enthusiastic body of some fifty-odd students, housed in an interesting building, that is at once their workshop and their club. It is a close corporation, too, with its own laws and customs, fasts and feast days, eyed with curiosity by the rest of the University, as being of strange and somewhat foreign character, but approached, hat in hand, as partaking of something vaguely artistic. And, Heaven be praised! it has already built up, around a nucleus of strong and clever young men, and I must add women, an atmosphere and ideals of its own. I do not need to tell you what that means.

In regard to the scheme of work, which I believe to be about the same as in most university schools, it may be stated that students do not begin work actively in architecture until their third college year, it being deemed necessary for them to become firmly established on a collegiate basis first, both in general subjects and in those which serve directly as a foundation for their future work in architecture.

Once in the "Ark" as it is called, they are required to do a given number of projects per year, usually five, with interpolated "esquisse esquisses," carrying on simultane-

ously their work in other departments of the University, such as engineering, language, etc. They are given grades upon their projects, which are also exhibited in order of excellence, and, as in other University work, these grades are averaged each term, this being necessary to put the work in architecture upon a common basis with other University work.

It occurs to me to jot down here an idea on collegiate schools in architecture. I think, and our experience will somewhat bear me out, that art schools, where established in connection with academic institutions, should be put upon an independent basis from the very first. That is, not made to conform to the same unit as Letters, Social Science, Commerce and what not, but free to grow in its own fashion. There is something so radically different in the nature and atmosphere of the two that it is cruelty to impose rules and hours. Academic work is inherently regular art work, essentially, spasmodic—the laity can never understand this quality—and call it the result of chronic procrastination, but I notice that "charettes" will happen in the best regulated schools.

If, then, a school of architecture is to be set up in a university, let it be upon broad and independent lines, from the beginning. I might tell you much more of the university had I time, for I have gotten to be very fond of the work there, affording, as it does, a change from the official routine which occupies the rest of the day.

I think, incidentally, that every one who can should teach. I think that no one should teach who is not doing active work, too. Now, a college course is well enough for men who are able to devote four or five or six years' entire time, save the summer, to their education, but it is not feasible for those who must needs earn their way from day to day, as is the case with most office men.

So much for the three types. Now, if you will permit me, I should like to outline a plan which is possibly not original with me, either wholly or in part, but which appeals to me as one which may be made to keep pace with coast development, insure the unified interest that forms the chief reason for being of the Architectural League, and at the same time would bring about a closer bond between patron and student.

Why not establish at, say, four points—Seattle, Portland, San Francisco and Los Angeles—four architectural schools, these being separately maintained institutions, financially and otherwise; these four schools forming collectively the Architectural League of the Pacific Coast, educationally speaking.

Why not have each of these schools composed of the ateliers in the immediate vicinity of each of the cities mentioned, with power to award recompense to "projects," which same might be issued simultaneously in each of the four, this power (of judging) to be safeguarded by a governing committee, chosen, like the present one, from the territory under consideration, the members of which committee, for instance, writing the programs.

At stated periods, twice or four times a year, there could be held in different cities in rotation, general exhibitions of all work, and certainly general competitions, open to the whole coast, as, for example, the one which we have just had the pleasure of judging.

I should have each school housed in its own district and separate rooms or buildings, common alike to all the ateliers of the school, with suitable provisions for leaving drawings on exhibition after judgment, and, as soon as possible, short courses of lectures, with examinations and records of them. I should like to see, for instance, examinations in our old friend, "descriptive geometry," history and mathematics, standing between the "analytiques" and the regular "Class B" projects. You know as well as I do what a jump it is for a lad to start his first building with nothing but fragments and orders in his head; and I would like to see a comprehensive course in construction between the work corresponding to that of "Class B" and that of "Class A," with efficient examinations attached.

The Architectural Club in San Francisco maintains, by means of lectures, a course in construction, but this is, I believe, without examinations and is kept distinct from the designs. Also, while the judgments and exhibitions of the Beaux Arts Society are held in its rooms, it is primarily a private and social club, and I believe that I am not alone in the feeling that it would be better to have a common meeting ground for the scholastic part.

Now, all this must needs come slowly; doubtless all the four schools would not be started at once, and I should think not before the need becomes apparent, but being a system of units this would not impair the whole design.

To sum up: (1) I would suggest that we write our own programs on the coast, as well as judge our own problems; (2) let there be in each center a common headquarters; (3) let us have the delightfully green fields of architectural design marked off by stern walls of descriptive geometry and construction; it makes them all the sweeter when they are finally attained.

It seems logical. I should like to see it tried. It is, after all, only a particularizing of the idea of the Architectural League as imagined by its founders, with the substitution of larger units for smaller ones, to the betterment of those concerned.

If it be the tendency of collegiate schools of architecture to become pedantic and archeological, to get away from the live conditions of actual problems, it is equally, I think, the tendency of ateliers composed of men, who too often have had no chance to lay out the broad lines of a general educator, to become addicted to "paper architecture" and rely upon brilliancy alone, rather than upon the significance and beauty of the forms employed. Why not aim at least at the best in both?

Lastly, in regard to that smallest unit of all, the "atelier," I do not need to remark

that this is the most vitally important of all; whatever the scheme of the whole, strong ateliers, built up of enthusiastic lads and sane, interested and interesting patrons, are the bone and sinew of the great school of art. They must be personal—man to man, my old theme, you see.

I have heard it quoted, as a belief of one of the most widely known men of the faculty at Berkeley, that the freshmen in college should be entrusted to the highest paid and most distinguished professors; that, at the precarious period of initiation into a line of thought and work, the novice should be in the most expert hands; later, when his own opinions gain strength, he may be safely left to the companionship rather than the guidance of younger men. I agree heartily with this myself. This scheme does not prevail, however, needless to say, for at present it is I who have the proud privilege each year of ushering a new class into the wondrous domain of architecture!

Did I say architecture? I should have said, more broadly, "Art," for it is far from rare to find men who insist that the design of buildings is merely applied civil engineering. It has, in fact, been my experience that the first six months of the junior year, nominally, with us, devoted to a study of the orders, must really become a period of getting acquainted.

I can't pretend to teach anything to one whom I do not know, or what is worse, who does not know and trust me. I find I must often hob-nob with him for days, or weeks even, over any subject but architecture, before I can get him to show me what poetry there is in him. American lads are slow to lay bare that side of themselves. I must overcome a hundred little college sophistries; I must meet a chap considerably more than half way, and on ground familiar to himself.

I have caught a boy's interest by his ambition to produce watercolors, or his interests in "mission style" furniture, or even such things as his love for horses or baseball.

I am quite sure that my choice of architecture as a profession was directly due to the construction, one summer, just ten years ago, of a massive oak table, after a design by one Will Bradley, which I found among the chaste pages of the "Ladies' Home Journal."

It is such a vast subject, in all its phases, that one of a thousand different aspects may have attracted one into picking it for life work.

Now, it surely is the business of him who is said to be teaching this mighty affair, to do his best; to single that point of view, and through it to reach the artistic being within to the best of his poor ability, rather than try to foist a uniform and ready-made doctrine on a terrified neophyte.

Give of yourself to your student; unbosom yourself before them, and they will not be slow to do the same before you. That is the thing that animates the dry bones of teaching into a living thing of flesh and blood; three years ago, I myself was a student, and

that is too recent for me to forget the pains and pleasures and vague dreams of the future. As long as it falls to my lot to be called a teacher, I pray that I may never be unmindful of these; humanistically speaking always stay at the age, like Peter Pan, of those with whom I am playing.

Of the experiences which have befallen me, I have never met with two more exquisite than that of surprising a fellow into his admission of his love for the beautiful and that of watching his pride in its growth after the confession; it is a more than ample reward.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**Decidedly better conditions are prevailing in the open money market since the first of the year. It is becoming easier every day for merchants to obtain money, and investment funds are also increasing. Improved circumstances are also reported from abroad, the Bank of England discount rate having been lowered to 4½ per cent., with talk of the Bank of France following the lead. Under these new conditions real estate mortgage money should also be more available, and this is a very favorable hour for both lenders and investors. The technical position of improved real estate has been strengthened materially in the past two years, since the falling off in the rate of new construction, with the normal growth of population at the same time, has raised the percentage of occupancy to a high figure, especially for residential property. All the present financial signs tend to substantiate the predictions of real estate experts that the current year will be one of continued improvement, until there is a complete restoration of normal conditions in 1915.

**One of the biggest front-brick contracts ever let in the East has been signed between the Thompson-Starrett Company, general contractors, and Fredenburg, Lounsbury & Houghtaling (Inc.), sole New York representatives of the Hydraulic Press Brick Company, for 2,500,000 light speckled enamel brick for the Equitable Building. Deliveries probably will begin in March or the first part of the second quarter, and will continue well into the end of the summer, according to the speed with which the building progresses. The brick will be of a special shade and will be placed in the building on the facades from the sixth floor to the roof and the courts. While the contract was practically closed on December 1st, the news of the award was not given out until just now, or until after the contracts had been formally closed. It promises to go down into brick history as one of the conspicuous brick orders, not only because of the great size, but because it will go into the largest building in the world.

**The annual convention of the National Building Trades and Employers' Association will be held at Louisville, Ky., January 21-23

next. Officers of the National Association are: President, Herbert J. West, West Construction Company, Baltimore, Md.; Secretary, I. H. Scates, Secretary of Baltimore Builders' Exchange.

**Milliken Brothers, the steel fabricating concern which has a plant at Milliken, Staten Island, and which has been under a severe financial strain for the last three months, has been reorganized and under a new company incorporated under the laws of Virginia for \$5,000,000, has begun business life anew with at least a million dollars working capital. William Salomon, of William Salomon & Co., will act as president until his successor can be chosen, with Francis Dykes, the vice-president, in charge of operation. George E. Barrett is secretary and A. A. Cannon, treasurer. The directors are Jules S. Bache, William Salomon, Edward P. Saunders, William B. Parsons, Thomas Denny, C. McK. Lewis, Fred. P. Corning, Cornelius B. Tyler, and Francis Dykes. Fresh capital was raised partly by assessing bondholders and by selling to the Bethlehem Steel Corporation, for about \$300,000, a portion of the rolling mill property of the company on Staten island.

**The sixty-first annual meeting of the American Society of Civil Engineers will be held Wednesday and Thursday, January 21 and 22, 1914, at the society house in New York City. The business meeting will be called to order at 10 o'clock Wednesday morning. The annual reports will be read, officers for the coming year elected, reports of special committees presented for discussion and other business transacted. Three special meetings will be held on the two days following the annual meeting. The topic for discussion will be "Road Construction and Maintenance."

**The members of the National Builders' Supply Association will hold their annual convention February 17 and 18 with headquarters at the Hotel La Salle, Chicago, Ill. The first afternoon of the convention will be left open for a general visit to the Cement Show, which will occur in the Coliseum at that time. If the plans of the Board of

Directors meet with the success now expected small dealers will be an important factor in the coming convention. As the dues of the association have been reduced, it is expected that this will be the means of bringing many dealers into the organization who heretofore have felt that they were not doing sufficient business to justify them in affiliating with the supply association.

**George W. Kittredge, editor, illustrator and civil engineer, died Friday, January 2, at his home 352 Lafayette avenue, Passaic, N. J., after a long illness. Mr. Kittredge was born in Dayton, Ohio, 64 years ago. He was one of the editors of the "Iron Age" for 25 years. Later he became part owner and editor of "The Sheet Metal Worker," a trade paper devoted to the interests of the sheet metal trade. He was the author of "Kittredge's Metal Workers' Pattern Book," and was considered a nexpert on sheet metal designing for building purposes.

**Druckmiller, Stackhouse & Williams, architects, Philadelphia, Pa., have dissolved partnership and reorganized under the firm name of Druckmiller & Williams, with offices in the Land Title Building, Philadelphia, Pa.

**H. Rex Stackhouse, formerly of the firm of Druckmiller, Stackhouse & Williams, architects, has recently formed a partnership with J. Fletcher Street for the practice of architecture. The new firm have offices in the Drexel Building, Philadelphia, Pa., under the name of Street & Stackhouse.

**The Eller Manufacturing Company (sheet metal specialists), of Canton, Ohio, announces that it has taken possession of its new plant at Canton. The building is of fireproof construction, brick and steel, with metal window sashes, covers two acres and is conveniently located in respect to the business centre of the city. The company was started thirty years ago by J. H. Eller. About eight years ago Mr. Eller sold his interest and the Eller Manufacturing Company was organized with J. F. O'Dea, president and treasurer; I. M. O'Dea, vice-president; H. V. Pay, secretary, and G. W. Hilibish, Charles C. Bolus, I. M. O'Dea, H. V. Pay and J. F. O'Dea, directors.

**The firm of Hewitt, Granger & Paist, architects, Philadelphia, Pa., dissolved partnership. Messrs. Hewitt and Granger have formed a new partnership for the practice of their profession.

**"The Problems of the Contractor," a paper read by L. C. Wason, before the Boston Society of Civil Engineers, has just been reprinted by the Aberthaw Construction Company, Boston, of which Mr. Wason is president. It deals with the relations, real and ideal, between the contractor on the one side and the owner, engineer and inspector on the other. Copies of this 40-page booklet may be obtained gratis from the Aberthaw Construction Company, 8 Beacon street, Boston, Mass.

**The Ceresit Waterproofing Company, of Chicago, was the recipient of two important merit awards during the last year, both of which were made on the virtues of Ceresit waterproofing compound. One award was made at the World's Exposition at Ghent,

Belgium, where this waterproofing compound carried off the grand prix. Within the last six weeks the International Exposition of Building Materials at Leipzig awarded the Ceresit product a gold medal.

**The memorial arch which the citizens of New York City contemplate erecting in memory of the late Mayor William J. Gaynor it is estimated will cost about \$20,000. A site at Delancey street, near the Williamsburgh Bridge has been proposed. No architect has been selected. Robbins Gilman, of 184 Eldridge street, has the matter in charge.

**The Societe De Femmes De France, care of Mr. George F. Kunz, of Tiffany & Co., Fifth avenue and Thirty-seventh street, New York City, are looking for a site upon which they contemplate erecting a statue of Joan of Arc to cost at least \$30,000. No architect or sculptor has yet been selected, and it is undecided when work will start.

**The Wemlinger Company, Inc., 11 Broadway, New York City, who are associated with the Wemlinger Steel Piling Company at the same address, have just been appointed New York and New Jersey sales agents for the Waterloo Cement Machinery Corporation, Waterloo, Iowa, manufacturers of the well-known line of Polygon and Little Wonder concrete mixers. The Wemlinger Company will carry a complete line of these machines in all sizes, as well as a complete line of repair parts. Parker U. Cole, formerly New York sales manager for the Waterloo Cement Machinery Corporation, will act in the same capacity for the Wemlinger Company, Inc., and will handle in addition to the above line, the account of the Glide Road Machine Company, Minneapolis, Minn., manufacturers of the "Glide" light-weight road graders; account of the Lourie Manufacturing Company, Springfield, Ill., manufacturers of the Staley power tamping machine, and the account of the Archer Iron Works, Chicago, manufacturers of concrete towers and hoists.

**Albro & Lindeberg, architects, 2 West Forty-seventh street, New York City, dissolved partnership by mutual consent, January 1, 1914. During the eight years of this partnership, the firm designed and superintended the erection of many of the handsomest country residences in the East. Louis Colt Albro, January 1st, became associated with Paul Phipps, architect, late of London, England. Mr. Phipps was a student of Luytens, the foremost British architect, and is a member of the British Institute of Architects. He is a grandson of the late Butler Duncan, and brother-in-law of Charles Dana Gibson, the artist. The new firm, under the name of Albro & Phipps, will occupy offices at 2 West Forty-seventh street, as heretofore, and Harrie T. Lindeberg will continue his profession individually at the same address.

**The American Abrasive Metals Company, 50 Church street, New York City, was awarded the gold medal and diploma for their "Feralun" safety treads at the First International Exposition of Safety and Sanitation recently held in the Grand Central Palace, New York City. These treads have extensive

uses in providing anti-slip surfaces in places where there is a great amount of pedestrian traffic.

ANTIQUE IRON GATES.

An American has purchased for \$3,500 a fine pair of old iron gates which have stood since the early part of the eighteenth century at the entrance of the Royal Female Orphan Asylum at Deddington, near Croydon, and two pairs of gates from the rear of the building.

The gates are about to be shipped to America, says the "New York Times." One condition of the purchase was that replicas of the front gates shall be supplied. The executors of the institution sold the gates under stress of financial needs.

The front gates have elaborate paneled wings and standards of hammered iron. Some beautiful scroll and decorative work and part of the ironwork of the gates are missing. It contained probably the crest and monogram of Sir Nicholas Carew, who held office under Henry VIII, and was beheaded on Tower Hill. His son, Sir Francis, built the mansion, of which the orphanage is now a part.

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They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs 1218 Chestnut Street

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race St., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

Adams Iron Foundry, 960 N. 9th st., Phila.
W. E. Wark Co., 1737 Filbert st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th St.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Concrete Reinforcement.

Builders Steel Products Co.
Lafayette Bldg., Phila.

Door Hangers

Richards-Wilcox Mfg. Co. 50 N. 6th St. Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th St., Phila.
F. Weber & Co., 1125 Chestnut St., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.
1112 Chestnut Street, Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut Sts.

Engineers' Supplies,

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th St., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut St., Phila.

Fences

Anchor Post Iron Works
Real Estate Trust Bldg

Fireproofing Materials.

Builders Steel Products Co.
Lafayette Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. cor. 9th and Arch sts., Phila.

Floor Coverings.

Davis & Nahikian, 201 S. 13th st., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.
Wm. Thomson, 64 N. 2d St., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Graphite Paint.

Jos. Dixon Crucible Co., 1020 Arch st.

Hardware and Tools.

Sees & Faber Co., 2008 N. Front st., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
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Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Hose and Fire Extinguishers

Chas. Bond Co., 520 Arch st., Phila.

Insurance.

A. E. Hutson, 134 S. 4th st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.

Landscape Work.

T. E. Steele, Palmyra, N. J.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Staman & Dickey Co., 30 S. 16th st., Phila.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Tile.

American Perfectile Co., 1526 Sansom St.

Metal Lath.

Builders Steel Products Co.
Lafayette Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

Chas. Bond Co., 520 Arch st., Phila.
The Fairbanks Co., 7th and Arch Sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems

Richards-Wilcox Mfg. Co., 50 N. 6th St., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Pyramid Paint Co., 131 N. 22nd st., Phila.
Jos. Dixon Crucible Co., 1020 Arch st., Phila.
Rinald Bros., 1142 N. Hancock st., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Thos. E. Sloan & Co., 802 Walnut st., Phila.

Perfectile

The American Perfectile Co.,
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Pipe Fittings and Valves.

Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co. 7th and Arch Streets

Plaster.

J. B. King Co., Builders' Exchange, Phila.

Plaster Board.

J. B. King Co., Builders' Exchange, Phila.

Radiators.

H. B. Smith Co. 1225 Arch st., Phila.

Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.

Refrigerators.

Henry M. Miller, 40 N. 2nd st., Phila.

Roofing.

Benjamin Foster Co.,
22d and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange

Roofing Tile.

C. F. Shellenberger, Builders' Exchange
O. W. Ketcham, Builders' Exchange, Phila.

Rugs.

Davis & Nahikian, 201 S. 13th st., Phila.

Scales. The Fairbanks Co., 7th and Arch Sts.

Sanitary Flooring.

Embossed Wall Covering Co., 880 N. 48th st.
Woodoleum Flooring Co., Betz Building

Sewer Pipe and Flue Linings.

C. F. Shellenberger, Builders' Exchange

Sash Pulleys.

American Pulley Co.,
420 1/2 Wissahickon ave., Phila.

Soundings.

Artesian Well Drilling Co.,
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Ridpath & Potter Co., Bourse Bldg., Phila.

Stair Builders.

Frank C. Snedaker & Co.,
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Stable Fixtures.

Adams Foundry Co., 960 N. 9th st., Phila.

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Terra Cotta (Architectural)

S. B. Dobbs, Bailey Bldg., Phila.
O. W. Ketcham, Builders' Exchange, Phila.

Test Borings.

Artesian Well Drilling Co.,
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Ridpath & Potter Co., Bourse Bldg., Phila.

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Tile—Floor, Wall and Decorative.

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Belfi Bros. & Co., 20-22 S. 19th st., Phila.

Trees and Shrubs. T. E. Steele, Palmyra, N. J.

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Howard Ketcham, 3rd & Girard Ave., Phila.

Wall Plaster.

J. B. King & Co., Builders' Exg'e. Phila.

Waterproofing

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Diamond Flexible Metal Weather Strip Co.,
Geo. R. C. Johnston, Drexel Bldg., Phila.
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Whitewashing.

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Window Screens

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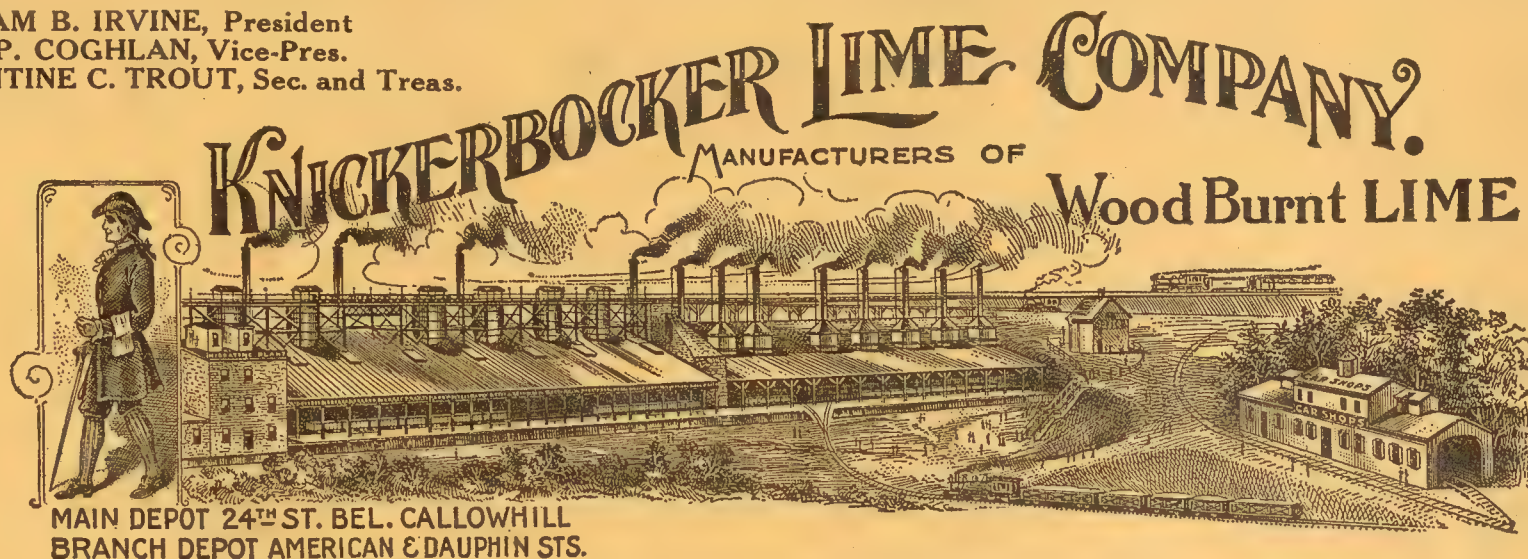
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Vol. XXIX., No. 4.

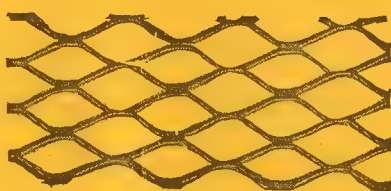
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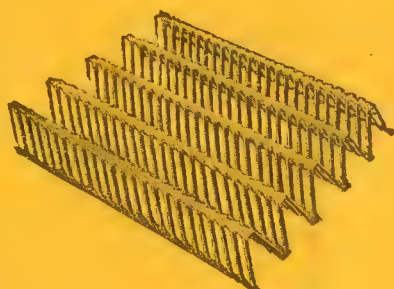
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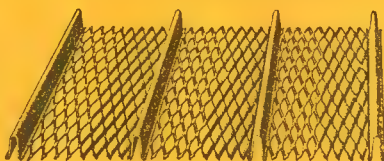


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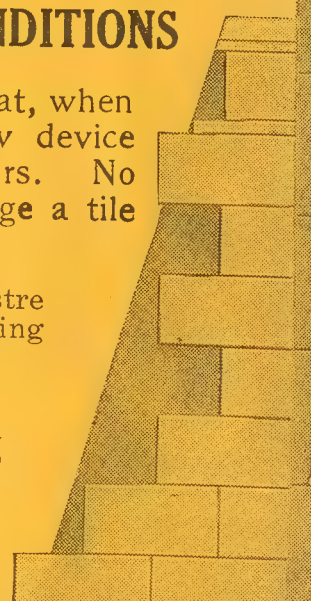
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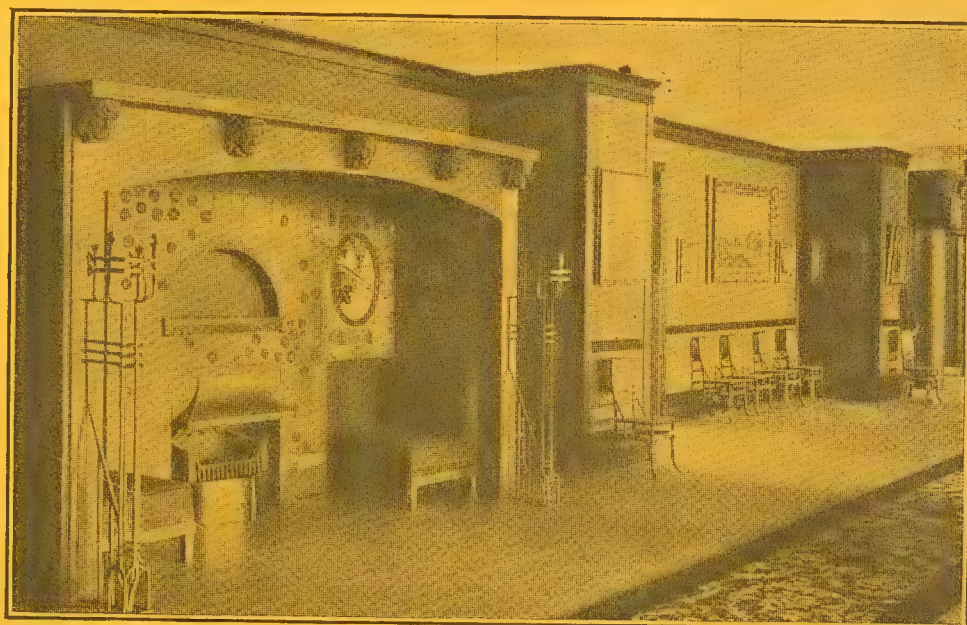
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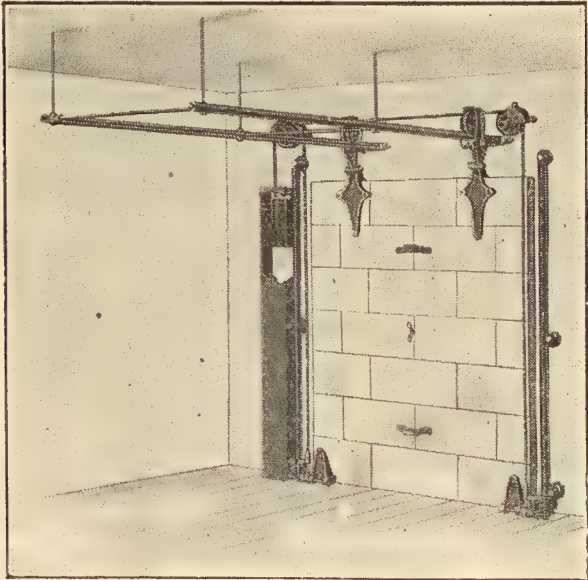
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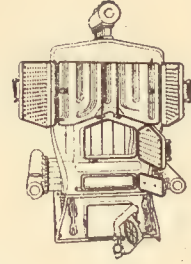
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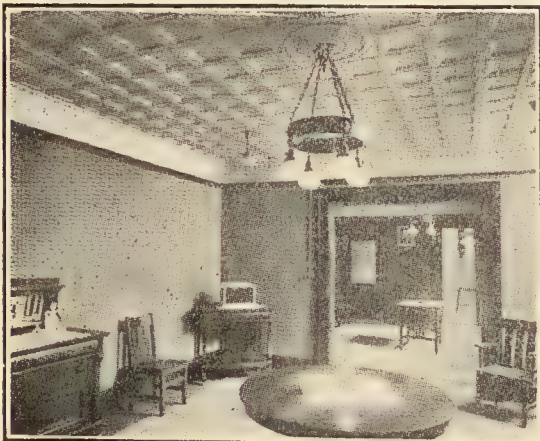
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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory (remodeling), 2210 East Hazard street. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, W. A. Melcher (agent), Stephen Girard Building. Brick, four stories. Consists of general remodeling, steam heating, electric lighting. Plans in progress.

Boiler House, Swanson and Tasker streets. Architects, Anderson & Haupt, Drexel Building. Owners, Berg Distilling Company, on premises. Brick and concrete, one story, 40x50 feet, slag roof. Plans in progress.

Theatre, Baltimore, Md. Architect, T. W. Lamb, 644 Eighth avenue, New York City. Owners, Pearce & Scheek, Baltimore, Md. Brick, steel and terra cotta, fireproof, one story, 108x141 feet, slag roof (heat and light reserved), metal doors, metal lath, waterproofing and dampproofing, Fenestra sash and Kalamein doors. Architects, taking bids, due January 30th. Cramp & Co., Denckla Building, is figuring.

Garage, Laundry and Boiler House, Fifth and Wilder streets. Architects, Magaziner & Potter, 603 Chestnut street. Owners, Mt. Sinai Hospital, on premises. Brick, fireproof, two stories, 40x45 feet, slag roof. Architects have received bids.

School, Dillsburg, York County, Pa. Architects, Hauer & Mowere, 3110 Columbia avenue. Owners, Board of Education, Dillsburg, York County, Pa. Brick, two stories, 90x140 feet, slate roof. Consists of twelve rooms. Plans in progress.

Garage, Thirteenth and Rockland streets. Architect, Lyle Gartley Park, 612 North Thirtieth street. Owners, Powell Brothers, 2429 Germantown avenue. Brick, one story, 60x85 feet, slag roof, steam heat. Owners taking bids, due January 26th. The following are figuring, in addition to those previously reported: A. R. Raff, 1635 Thompson street; J. W. & A. M. Green, Marshall and Girard avenue; H. H. Wehmeyer, 1004 West Lehigh avenue; C. J. Reich, 1112 Loudon street, Logan, Philadelphia.

Residences (20), Lincoln Drive and McCallum street. Architect, private plans. Owner, John H. McClatchy, Land Title Building. Stone, two and one-half stories, 18x50

feet, slate roof, electric light, steam and hot water heat, hardwood floors. Owners taking sub-bids on all lines.

Infirmery, Eaglesville, Pa. Architects, Magaziner & Potter, 137 South Fifth street. Owner, Jewish Sanatorium for Consumptives. Brick and frame, one story, shingle roof, electric light, steam heat. Consists of administration building, power house, dining room, additional shack. Architects have received bids.

Residence (alt. and add.), Norristown, Pa. Architect, E. T. Boggs, 136 South Fourth street. Owner, Ed. Nelms, Norristown, Pa. Brick, two and one-half stories, electric light, tin roof. Bids in about one week. Plans in progress.

Residence, Doylestown, Pa. Architect, A. O. Martin, Doylestown, Pa. Owner, I. J. Vanartsdalen, Doylestown, Pa. Stone, two and one-half stories, 30x40 feet, slate roof, electric lighting, hardwood floors, heating reserved). Architect has received bids.

Y. M. C. A., Coatesville, Pa. Architects, Shattuck & Hussey, 19 South LaSalle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick and stone, four stories, 95x144 feet, slate and slag roof, electric light, steam heat, marble interior, waterproofing, expanded metal. H. E. Baton, Tenth and Sansom streets, is figuring, in addition to those previously reported.

Factory, 206 South Fourth street. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, Joseph J. Greenberg, Morris Building. Brick, four stories, 60x250 feet, slag roof. Plans in progress.

Church, Oakmont, Delaware County, Pa. Architects, Charles Bolton & Sons, Witherpoon Building. Owners, Oakmont Union Presbyterian Church. Stone, one story, 50x90 feet, slate roof, electric light. Architects taking bids, due February 2nd. The following are figuring: T. C. Trafford, 1613 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; William H. Roberts, Newtown Square, Pa.; George W. Deaves, Oakmont, Pa.

Hotel (alt. and add.), Coatesville, Pa. Architect, Louis C. Hickman, Fourth and Chestnut streets. Brick, three stories, 50x100

feet, and interior alterations and addition, slag roof, electric light. Plans in progress.

Church, Darby, Pa. Architect, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Blessed Virgin R. C. Church, care of Rev. W. A. Fitzgerald, Darby, Pa. Stone, two and one-half stories, 60x80 feet, slate roof, slag roof, electric light, hot water heat. Basement and first floor will be built first. Plans in progress.

Garage, Thirteenth and Rockland streets. Architect, Lyle Gartley Park, 612 North Thirtieth street. Owner, Thomas Lawler, care of Powel Brothers, 2429 Hermantown avenue. Brick, one story, 60x85 feet, slag roof, steam heat. Owners taking bids, due January 31st. The following are figuring: J. H. Dagney, Oak Lane, Harry Gill, 2515 Germantown avenue; H. E. Baton, Tenth and Sansom streets; Charles McCaul Company, Tenth and Sansom streets.

Residences (2), St. Martins, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Plans in progress.

Dormitories (2), Spring City, Pa. Architect, P. H. Johnson, Land Title Building. Owner, Pennsylvania State Hospital for Insane, Spring City, Pa. Brick, steel and concrete, two stories, 60x100 feet, slate roof. Plans completed. Owners ready for bids.

Stores (4), Fifth and Duncannon streets, Philadelphia. Architect, private plans. Owners, Bell Company, 953 Hancock street. Brick, one story, 15x25 feet, slag roof, electric light. Owners taking bids, due January 30th. The following are figuring: T. C. Trafford, 1613 Sansom street; H. H. Wehmeyer, 1004 West Lehigh avenue; Harry Gill, 2515 Germantown avenue.

Residence (alt. and add.), Paoli, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, Samuel Horner, Jr., 1324 North Broad street. Stone, two and one-half stories. Consists of two wings, 25x30 feet and 30x30 feet, shingle roof, electric lighting, hot water heating, hardwood floors. Architect ready for bids.

Building (alt. and add.), Washington, D. C. Architect, Oscar Wenderoth, Treasury De-

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partment, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and stone, three stories. Consists of interior addition and alteration, composition floors, metal lath, fireproofing, electric light, steam heat. Owners taking bids, due January 31st. The following are figuring: Ed. Fay & Sons, 8 South Mole street; J. E. & A. L. Pennock, Land Title Building; Skinner & Garrett, Evans Building, Washington, D. C.

Factory (alt. and add.), Lebanon, Pa. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Herman Augan, Lebanon, Pa. Brick, consists of additional toilet rooms and new fire tower. Architects taking bids, due January 30th. The following are figuring: P. Haibach Cont. Co., Twenty-sixth and Thompson streets; F. L. Hoover & Sons, 1023 Cherry street; F. H. Keiser Company, Pottstown, Pa.; Fink & Seidel, Reading, Pa.; H. Bußmeyer, Lebanon, Pa.; J. H. Greiner, Lebanon, Pa.; H. L. Brown, 1714 Sansom street, Philadelphia.

Residence and Farm Buildings (remodeling), Meadowbrook, Pa. Architect, private plans. Owner, Clarence Watkins, Lansdowne, Pa. Stone, 2½ stories. Plans in progress. Owner will take bids.

Residences (40), Fifty-fifth and Elliott

streets. Architect, private plans. Owner, Daniel Crawford, Jr., 701 North Sixty-third street. Brick, two stories, 16x42 feet, slag roof, electric light, hot water heat, hardwood floors. Owner taking sub-bids on all lines.

Church, Hancock and York streets. Architect, W. C. Klein, Jr., 1519 North Fifty-sixth street. Owner, Alpha Baptist Church, 2443 Mascher street. Stone, one story, 45x100 feet, slate roof. Plans in progress.

Garage, Twentyfourth and Ionic streets. Architects, M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenberg, Morris Building. Brick, one story, 30x100 feet, slag roof, electric light, steam heat. Owners taking sub-bids on all lines.

Factory (add.), Eleventh and Washington avenue. Architect, Werner Trumbauer, Crozer Building. Owners, John Wyeth & Bros., Eleventh and Washington avenue. Brick, two stories, 60x130 feet, slag roof. Architect taking bids, due January 30th. The following are figuring: Ketcham & McQuade, 1029 Brown street; F. L. Hoover & Sons, 1023 Cherry street; H. E. Grau Company, 1707 Sansom street; Stacy Reeves & Sons, 2011 Market street; A. Whitehead, 1624 Latimer street.

Stable and Wagon Shed, McKean and Water streets. Architect, C. W. Denny, Hale Building. Owners, Union Petroleum Co., on premises. Brick and concrete, 2 stories, 68x101 feet, slag roof, metal windows and doors, rolling steel shutters, metal lath. Architect taking bids due February 2nd. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Stacy Reeves & Sons, 2011 Market street; J. G. Doak & Co., Crozer Building; William R. Dougherty, 1608 Sansom street; Charles Gilpin, Harrison Building; George L. Sipps, Harrison Building; Loos & Dothard, 1432 South Penn Square.

Office Building and Store, Broad and Ruscomb streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, Wilson & Weller, York road and Rockland street. Brick, 2 stories, 32x100 feet, slag roof, electric light, steam heat, metal lath, mackite partitions. Owner will take sub-bids on all lines.

Residences (6), Bon Air Farms, Pa. Architect, private plans. Owners, Bon Air Farms Co., Harrison Building. Stone and frame, 2½ stories, 24x35 feet, shingle roof, electric light. Owner will take bids in about one week.

Residence, Wynnewood, Pa. Architects, Donald Folsom & Stanton, 1433 Chestnut street. Owner, A. W. Schwartz, Ardmore, Pa. Hollow tile and plaster, 2½ stories, 25x35 feet, shingle roof, electric light, hot-water heat. Architects taking bids due February 3rd. The following are figuring: E. J. Kretzberg, 1345 Arch street; F. B. Davis, 35 South Seventeenth street; Gray Bros., Rosemont, Pa.; W. H. Parlamen, Devon, Pa.; J. E. Kearney, 327 North Sixty-third street.

Office Building, Wilkes-Barre, Pa. Architect, private plans. Owners, Lehigh Valley R. R. Co., New York City. Brick and terra cotta, 2 stories, 50x57 feet, metal ceilings, rolling steel doors, asbestos roof, electric light, steam heat. Owner taking bids due February 2nd. Roe Searing, Perry Building, is figuring.

Garage, Baltimore, Md. Architect, Edward H. Glidden, Baltimore, Md. Owner, Zell Motor Car Company, Lovegrove street and Mt. Royal avenue, Baltimore, Md. Brick and stone, fire-proof, 4 stories, 34x58 feet, steel sash, steel rolling doors, slag roof, composition floors, expanded metal, terra cotta and gypsum block partitions. Architects taking bids due January 30th. Irwin & Leighton, 126 North Twelfth street, is figuring.

Signal Tower, Roelofs, Pa. Architect, William Hunter, Twelfth and Market streets. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick and plaster, 2 stories, 15x30 feet, asbestos shingle roof, electric light, hot-air heat, expanded metal. Owners taking bids due February 5th. The following are figuring: Charles Gilpin, Harrison Building; Brown-King Construction Co., Harrison Building; A. L. Carhart, Hale Building; F. A. Stevens Co., 845 North Nineteenth street; H. E. Baton, Tenth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; George Hogg, 1634 Sansom street; Burd P. Evans Co., Thirteenth and Wallace streets; J. Sims Wilson, 1125 Brown street.

Church, Oakmont, Delaware County, Pa. Architects, Charles Bolton & Sons, Witherpoon Building. Owner, Oakmont Union Church, Oakmont, Pa. Stone, 1 story, 50x90 feet, slate roof. Architects taking bids due February 2nd. In addition to those previously reported, F. T. Mercer Co., 1706 DeLancey street, is figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Dairy Building, Camden, N. J. Architects, Hewitt, Granger & Paist, Bourse Building.

Owners, Garden State Dairies, 330 Berkley street, Camden, N. J. Brick and terra cotta,

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three stories, 65x102 feet; wing, 25x27 feet; tile roof, metal sash and frame, marble interior, waterproofing, elevators, (heat and light reserved). Contract awarded to Barclay White Company, Perry Building.

Store and Residence, 4157 Germantown avenue. Architect, private plans. Owner, F. J. Donnelly, 4215 Germantown avenue. Brick, two stories, 16x55 feet, slag roof, electric light, steam heat. Contract awarded to H. E. Sweger, 4435 North Uber street.

Cottage, Wyndmoor, Pa. Architect, private plans. Owner, Randall Morgan, on premises. Frame, two and one-half stories, shingle roof, hot water heat. Contract awarded to W. J. Gruhler, 219 High street, Germantown.

Garage, 137 School lane, Germantown, \$2,000. Architect, private plans. Owner,

Mrs. Benjamin Miller, 137 School lane. Brick, one story, 25x30 feet, slate roof, electric light, hot water heat. Contract awarded to W. J. Gruhler, 219 High street, Germantown.

Residence (alt. and add.), Cynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, S. H. Croft, Cynwyd, Pa. Stone, two and one-half stories, slate roof (heating and electric work reserved). Contract awarded to Mowrer Bros., Merion, Pa.

Children's Ward, Thirty-fourth and Spruce streets. Architects, Brockie & Hastings, 1713 Sansom street. Owner, University of Pennsylvania Hospital, on premises. Brick, 3 stories, marble interior, metal lath. Contract awarded to F. J. Treston, 2343 North Twenty-second street.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

P. Weinstein (O), 361 Minton street. N. Litman (C), 2322 South Tenth street. Cost, \$1,035. Store and dwelling, Sevtmh and Gerit streets.

William Bierthardt (O), 838 North Twenty-eighth street. Mitchell Bros. (C), 2125 Race street. Cost, 1,000. Store and dwelling, 2147 Summer street.

H. Klemman (O), 567 North Fifth street. W. Weintraub (C), 412 Monroe street. Cost, \$2,500. Store, 567 North Fifth street.

H. Patterson (O), 4231 Walnut street. F. Broome (C), 4003 Sansom street. Cost, \$1,000. Dwelling, 4231 Walnut street.

A. S. Tourison (O), 7014 Boyer street. Cost, \$1,100. Garage, Mt. Pleasant and Air-leigh avenues.

I. Cohen (O), 1330 North Fifth street. N. Shestack (C), 322 Dickinson street. Cost, \$965. Stable, 1330 North Fifth street.

Mrs. B. Miller (O), 137 School lane. W. J. Gruhler (C), 219 High street. Cost, \$2,000. Garage, brick, two stories, 20x25 feet, 137 School lane, Germantown.

W. J. Vernon (O), Stephen Girard Building. J. McKenna & Sons (C), 1032 Race street. Cost, \$8,000. Brick, one story, 37x75 feet, 1526 Cumberland street.

W. T. Clark (O), Thirtieth and Columbia avenue. Cost, \$6,000. Two dwellings, brick, two stories, 16x50 feet. Cost, \$40,000. Twenty dwellings, Twenty-fourth and Cambria

J. L. Raff (O), 1635 Thompson street. A. R. Raff (C), 1635 Thompson street. Cost, \$4,000. Dwelling, stone, three stories, 27x37 feet, Oak Lane, Philadelphia.

Philadelphia Electric Company (O), Tenth and Chestnut streets. J. R. Wiggins (C), Heed Building. Cost, \$35,000. Shop, brick,

two stories, 60x114 feet, Schuylkill avenue and Christian street.

Mark & Kramer (O), 2352 North Front street. M. Morrison (C), 2322 North Howard street. Cost, \$8,000. Store, brick, two stories, 41x63 feet, 2350 North Front street.

M. Barkins (O), 525 Pierce street. Cost, \$4,500. Three dwellings, brick, two stories, 13x24 feet, 1035 Cantrell street.

Philadelphia & Reading Railroad Company (O), Twelfth and Market streets. Burd P. Evans Company (C), Thirteenth and Wallace streets. Cost, \$3,200. Battery house, brick, one story, 30x18 feet, Thirteenth street. Cost, \$3,200. Signal tower.

Mark Haller (O), 2123 South Fourth street. Cost, \$10,000. Four stores and dwellings, two stories, 15x44 feet, Galloway and Mifflin streets. Cost, \$34,200, nineteen dwellings.

Samuel Goldberger (O), 1640 Germantown avenue. Grice & Lieberman (C), 255 North Fifty-second street. Cost, \$18,000. Stores and hall, brick, two stories, 40x100 feet, Twenty-seventh and Girard avenue.

Sagamore Realty Company (O), Chestnut Hill, Pa. A. Whitehead (C), 1624 Latimer street. Cost, \$11,000. Theatre, brick, two stories, 33x86 feet, Germantown avenue and Graver's lane.

Alterations and Additions

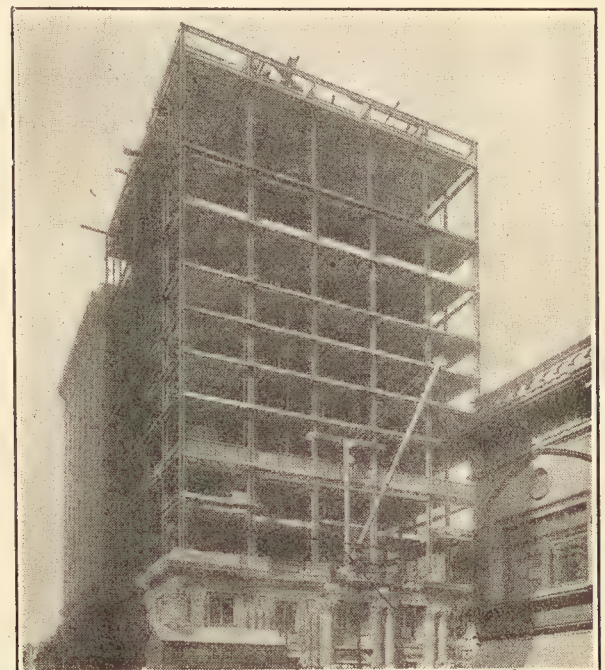
B. Schmitt (O), 5307 Chester avenue. M. Krowisky (C), 1025 Moyamensing avenue. Cost, \$1,000. Store and dwelling, 1624 Arch street.

P. A. B. Widener (O), Land Title Building. G. A. Fuller Company (C), Morris Building.

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J. V. Ramisden (O), 1989 North Sixty-third street. Charles Pace (C), Merion, Pa. Cost, \$500. Store and dwelling, 1989 North Sixty-third street.

Frank R. Hill (O), Oak Lane. Cost, \$1,500. Manufacturing building, Seventh and City Line avenue.

Integrity Trust Company (O), Fourth and Green streets. George Kessler Company (C), Drexel Building. Cost, \$1,500. Two dwellings, 1216 North Front street.

M. A. Felns (O), 4112 Germantown avenue. N. M. Bean (C), 4411 Germantown avenue. Cost, \$2,000. Store and dwelling 4421 Main street.

I. N. Smith (O), 1917 North Broad street. S. B. MacDowell & Sons (C), 1927 Montgomery avenue. Cost, \$2,000. Dwelling, 1501 Master street.

Broad tSreet Bank (O), Broad and Diamond streets. H. E. Baton (C), Tenth and

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Sansom streets. Cost, \$5,000. Bank, Broad and Diamond streets.

Seedman & Hyman (O), 1324 South Fourth street. Cost, \$2,000. Store and residence, Seventh and Jackson streets.

C. W. Spiess (O), Ninth and Walnut streets. P. Savar (C), Seventh and Snyder avenue. Cost, \$1,200. Store and dwelling, Twelfth and South streets.

W. Tifelman (O), 3039 Kerks streets. William Myers (O), 216 Quarry street. Cost, \$2,300. Dwelling, 3223 Clifford street.

H. Fleigelman (O), 36 North Second street. Samuel Schultz (C), 920 East Moyamensing avenue. Cost, \$8,200. Store and warehouse, 29 North Second street.

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NEW JERSEY Construction News

Water System Extension, Ventnor, N. J. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Owner, City of Ventnor, care of E. Steelman Royal, Clerk. Cast iron pipe. Plans in progress.

Sewerage Disposal Plant, Ventnor, N. J., \$75,000. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Owner, City of Ventnor, care of E. Steelman Royal, Clerk, Ventnor. Plans completed. Owners will take bids about March 1st.

Stores and Residences (4), Pleasantville, N. J., \$12,000. Architects, private plans. Owners, Lake & Risley, Pleasantville, N. J. Brick, two stories, 16x40 feet, slag roof, hot air heat, electric lighting. Owner will take sub-bids.

Residence, New Jersey avenue, Cape May, N. J., \$15,000. Architect, private plans. Owner, Dr. Charles N. Davis, 1931 Spruce street, Philadelphia. Frame, asbestos shingle, three and one-half stories, 42x64 feet, electric lighting, asbestos shingle roof, refrigerator, metal lath. Builder, Otis M. Townsend, Ocean City, N. J., is taking sub-bids.

Paving (streets), sheet asphalt, Ventnor, N. J. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Owner, Ventnor City, care of E. Steelman Royal, City Clerk, Ventnor City, N. J. Plans in progress. Owners will take bids in about two months.

School (add.), Ventnor avenue, Ventnor, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City. Owners, Board of Education, care of G. A. Bourgeois, Aug. F. Botte, W. Zimmerman, Oliver Rogers, Victor Fischer, Ventnor, N. J. Brick, addition of four rooms and 2 rooms. Plans in progress.

Sewerage System Extension, Ventnor, N. J. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Owner, City of Ventnor, care of E. Steelman Royal, City Clerk, Ventnor. Terra cotta pipe. Plans in progress.

School (add.), Maple Shade, N. J. Architect, A. H. Moses, 136 South Fourth street. Owners, Board of Education, Maple Shade, N. J. Brick, two stories, asbestos shingle roof. Plans in progress.

Candy Factory (add.), West End avenue, Trenton, N. J. \$100,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, Belle Meade Sweets Manufacturing Co., care of M. Rockhill, on premises. Brick, steel and reinforced concrete, 6 stories, 75x160 feet. Power equipment, reserved. Plans in progress.

Store and Flat, Trenton, N. J. \$10,000. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owner, name withheld. Brick, 2 stories, 24x96 feet, slag roof, electric light, metal lath, metal front bulk. Plans about completed. Architect will soon take bids.

Residence (alt. and add.), Wissahickon and Atlantic avenues, Atlantic City, N. J. \$4,500. Architect, Seward G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, W. H. Carroll, Portland and Atlantic

avenues, Atlantic City, N. J. Brick and frame, 3½ stories, mostly interior alteration, hardwood floors, tile bath, electric light, heating alteration. Owner is sub-letting all contracts.

Picture Theatre, Stores and Residence, South Clinton street and Hart avenue, Trenton, N. J. \$25,000. Architect, private plans. Owner, William and Frederick Rumpf, Langhorne, Pa., and David Rabinovitch, 1609 North Thirty-third street, Philadelphia. Brick, 1 and 2 stories, 45x55 feet and 46x85 feet, slag room, steam heat, hollow tile, tile coping, electric lighting. Owners will sub-let all contracts.

Department Store and Garage, Trenton, N. J. \$60,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, H. M. Voorhees & Bro., 109 East State street. Granite, limestone, reinforced concrete, 4 stories, 60x165 feet. Garage, 1 story, 21x47 feet, alternate for ornamental terra cotta, hollow tile, metal lath, metal windows, flange pole, fire doors, slag roof, vault light, water-proofing, marble partitions, fire-escape. Architects taking bids due February 3rd. In addition to those previously reported, Barclay White & Co., Perry Building, Philadelphia; Charles Randall, 43 North Hermitage street; E. D. LaRue, 52 North Hermitage street; I Harper Clayton, American Mechanic Building, Trenton, N. J., are figuring.

Concrete Bulk Head, Water Works, Trenton, N. J. Engineer, A. Swan, Jr., City Hall, Trenton, N. J. Owner, City of Trenton, care of Frank Thompson, City Clerk, City Hall. Reinforced concrete, 60x250 feet. Owner will take bids soon. Plans in progress.

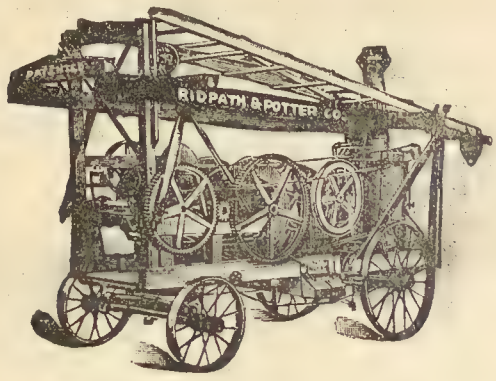
Bungalow, Atlantic City, N. J. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. E. T. Reichert, care of Architect. Hollow tile and plaster, 1½ stories, 24x40 feet, shingle roof, electric lighting. Architects taking bids due January 31st. The following are figuring: Augustus Cramer and J. Mathis & Sons, both of Atlantic City, N. J.

Garage, 3807-09 Atlantic City, N. J. Architect, Seward G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, name withheld. Brick and reinforced concrete, slag roof, 2 stories, 50x110 feet. Plans completed. Architect ready for bids.

Residence and Garage, Ventnor, N. J. \$15,000. Architect, S. G. Dobbins, 116 North Brighton avenue, Atlantic City, N. J. Owner, J. Parker, care of Architect. Brick and hollow tile, 3 stories, slate roof, hot-water heating, electric lighting, hardwood floors. Architect has received bids.

Residence (add. to Apartment House), 221 North Warren street, Trenton, N. J. Architect, W. W. Slack & Son, American Mechanic Building. \$10,000. Owner, Mrs. P. Carney, on premises. Brick, 3 stories, 32x104 feet, slag roof, electric lighting, steam heating. Plans completed. Architect ready for bids. Note owner.

Residence, Trenton, N. J. Architects, Hill & Pette, 40 East State street, Trenton, N. J.



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Owner, name withheld. Brick, 2½ stories, 35x42 feet, slate roof, hot-water heat, electric light. Plans about completed. Architect will take bids in a few days.

Residences (2), Woodlawn avenue, N. J. \$10,000. Architects, W. W. Slack & Son. American Mechanic Building Trenton, N. J. Owner, Walter C. Slack, West State street, Trenton, N. J. Brick, 2½ stories, slate roof, hot-water heat, electric light, tile baths, hardwood floors. Plans completed. Owner will take sub-bids.

Residence, Edgewater Park, N. J. \$3,500. Architect, private plans. Owner, Hugh B. Miller, Edgewater Park, N. J. Hollow tile and frame, stucco, 2½ stories, 28x30 feet, hot-air heat, shingle roof, electric light. Plans completed. Owner ready for sub-bids.

Residence, Delanco, N. J. \$4,500. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, E. Johnson, Delanco, N. J. Hollow tile, stucco, 2½ stories, hot-air heating, shingle roof, electric light. Plans in progress. Architect will take bids in about one week.

Residence, Riverside, N. J. \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, George N. Miller, Riverside, N. J. Frame, 2½ stories, 30x30 feet, asbestos shingle roof, hot-water heating, electric lighting. Plans about completed. Architect will take bids in a few days. George W. Sharer, Palmyra, N. J.; Hugh E. Miller, Edgewater Park, N. J.; George Schele, Riverside, N. J.; G. D. Logan, Beverly, N. J.; Joseph Hammel, Delanco, N. J., will figure.

Apartment House and Residences (2), Florence, N. J. Architect, private plans. Owner, Florence Iron Works Co., Florence, N. J. Brick, 2½ stories, 31x38 feet; 1½ stories, 16x28 feet; 1½ stories, 31x28 feet, asbestos shingle roof, hot-air heat. Owners taking bids. Hugh B. Miller, Edgewater Park, N. J., and H. H. Williams, Burlington, N. J., are figuring.

Residence, Riverside, N. J. \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, William Miller, Riverside, N. J. Frame, 2½ stories, 31x32 feet, asbestos shingle roof, hot-water heating, electric lighting. Architects taking bids. The following are figuring: George W. Sharer, Palmyra, N. J.; Hugh B. Miller, Edgewater Park, N. J.; George Schele, Riverside, N. J.; J. D. Logan, Beverly, N. J.; Joseph Hammel, Delanco, N. J.

Double Residence, Palmyra, N. J. \$3,800. Architect, Herbert O. Zeigler, Riverside, N.

J. J. Owner, Mrs. E. A. Rogers, Riverside, N. J. Hollow tile stucco, 2½ stories, 34x38 feet, shingle roof, hot-air heating. Architect will take bids in about ten days. Plans in progress.

Store, Office and Residence, Mt. Holly, N. J. Architect, private plans. Owner, Morris H. Keeler, Mt. Holly, N. J. Stone front and brick, three stories, hot water or steam heating, electric lighting, slag roof. Owner will soon take sub-bids, care of E. H. Burtis, 210 High street, Burlington, N. J.

Factory (rebuilding), High street, Burlington, N. J., \$4,000. Architect, private plans. Owners, Lindabury & Sons, Burlington, N. J. Brick, one story, slag roof. Owners about ready for bids.

Residence, Delanco, N. J., Sinnex tract, \$4,000. Architect, private plans. Owner, Frank Toy, Delanco, N. J. Frame, 2½ stories, shingle roof, electric light, hot water heat. Owner about ready for bids.

Residences (3 pairs), Wood street, Burlington, N. J. Architect, private plans. Owner, E. H. Burtis, 310 High street, Burlington, N. J. Brick, two stories, slag or tin roof, hot air heat. Plans completed. Owner about ready for sub-bids.

School, West Berlin, N. J., \$10,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, care of W. H. Haynes, Secretary, Berlin, N. J. Brick, four rooms, two stories. Plans in progress.

Stores and Apartments (2), Haddon avenue, Collingswood, N. J., \$8,000. Architect, private plans. Owner, Charles Sutton, Haddon avenue, Collingswood, N. J. Brick, two stories, slag roof, electric light, hot air heat. Plans in progress.

Residence, Moorestown, N. J., \$5,000. Architect, W. G. LeConey, Moorestown, N. J. Owner's name withheld. Frame, 2½ stories, slate roof, hot air heat, electric light. Architect will soon take bids. Plans in progress.

School, Absecon, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City. Owners, Board of Education, Absecon, N. J. Brick, two stories, 50x85 feet, slate roof, electric lighting. Owners taking bids, due February 12th, S P. M. W. Beaumont, 12 South Tennessee avenue, Atlantic City, and Charles S. Corson, Linwood, N. J., are figuring.

Store Building, Trenton, N. J., \$12,000. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owner, H. L. Levine,

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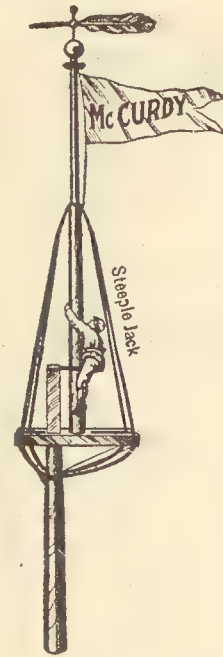
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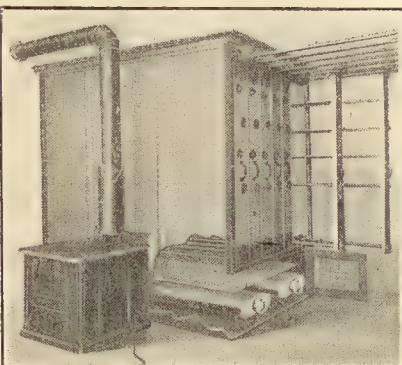
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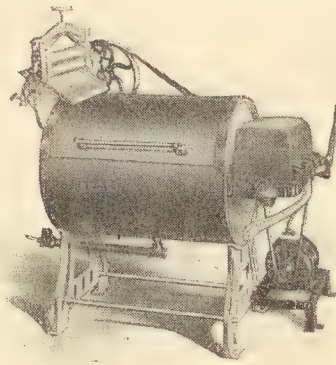


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Trenton, N. J. Brick, three stories, slag roof, steam heating, electric lighting. Architect ready for bids.

Residence, Grant avenue, Trenton, N. J., \$20,000. Architects, W. W. Slack & Co., American Mechanics' Building, Trenton, N. J. Owner, C. Edward Murray, 237 Greenwood avenue, Trenton, N. J. Hollow tile and plaster, three stories, 35x78 feet, tile roof, electric lighting, hot water heating, parquet floors. Architects taking bids. The following are figuring: Burton & Burton, American Mechanics' Building; Scott & Day, 232 South Olden avenue; S. Mather & Son, 30 South Clinton street; E. D. La Rue, 52 North Hermitage street; W. J. & J. H. Morris, Broad Street Bank Building; Daniel A. Dugan, 404 Greenwood avenue, all of Trenton, N. J.

Store and Loft Building, Broad and East Hanover streets, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Samuel Krueger, 11 East Front street, and Isaac Smith, Broad and Factory streets, Trenton, N. J. Brick and terra cotta, six stories, 40x72 feet, slag roof, steam heating, electric lighting, elevator, hollow tile and concrete fireproofing. Architects taking bids. The following are figuring: Burton & Burton, American Mechanics' Building; D. A. Dugan, 404 Greenwood avenue; Louis Levy, 320 Centre street; S. Mather & Son, 30 South Clinton street; Scott & Day, 232 South Olden avenue; W. J. & J. H. Morris, Broad Street Bank Building, all of Trenton, N. J.

School, Berlin, N. J., \$10,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, care of W. H. Haynes, Secretary, Berlin, N. J. Brick, four stories, two stories. Plans in progress.

Schools (4), Columbus Township, N. J., \$20,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Columbus Township Board of Education, care of John L. Bishop, Real Estate Trust Building, Philadelphia. Brick, two stories, 70x110 feet, and one story, 45x45 feet and 45x90 feet, slate roof (heating and lighting reserved). Schools located at Hedding, Columbus, Mansfield and Georgetown, N. J. Owners taking bids, due February 16th.

Store Building (alt. and add.), Ocean City, N. J. \$5,000. Architect, E. M. Henderer, Ocean City. Owner, Reide-Paiste Hardware Co., Ocean City, N. J. Brick, 2 stories, 29x90 feet, slag roof, steam heating, electric lighting, elevators, metal ceilings. Owners ready for bids.

Church Hall, Hopewell, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, First Presbyterian Church, care of Herbert Fretter, Chirman, Hopewell, N. J. Brick, 1 story, 59x54 feet, slate roof, steam heating, electric lighting. Architects ready for bids.

Residences (8), Collingswood, N. J. \$3,000 each. Architect, private plans. Owner, H. L. Merriek, Collingswood, N. J. Frame, 2½ stories, 26x36 feet, shingle roof, hot-air heating. S. T. Miller, Collingswood, N. J., Builder, is ready for sub-bids.

Residence (2), Woodbury, N. J. \$,000 each. Architect, private plans. Owner, C. A. Green, Woodbury, N. J. Frame, 2½ stories, 28x32 feet, slate roof, hot-air heating, electric lighting. Thompson Allen, Woodbury, N. J., Builder, is taking sub-bids.

Bridge, Woodbury, N. J., Hunter street.

\$25,000. Engineer, W. C. Cattell, Wenonah, N. J. Owner, Board of Freeholders, care of W. Jones, Court House, Woodbury. Concrete and steel. Plans completed. Owners will soon take bids.

Signal Tower, Hopewell, N. J. Architect, William Hunter, Twelfth and Market streets. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick and plaster, 2½ stories, 15x36 feet, asbestos shingle roof, electric lighting, hot-air heating, expanded metal. Owners taking bids due February 5th. The following are figuring: Charles Gilpin, Harrison Building; Brown-King Construction Co., Harrison Building; A. L. Carhart, Hale Building; F. A. Havens Co., 845 North Nineteenth street; H. E. Baton, Tenth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; George Hogg, 1534 Sansom street; Burd P. Evans Co., Thirteenth and Wallace streets; J. Sims Wilson, 1125 Brown street.

Hospital, Millville, N. J. Architect, Guy King Co., 1513 Walnut street. Owner, Millvill Hospital. Brick, 2 stories, 30x100 feet, semi-fireproof, electric light, steam heat, slate roof. Architects taking revised bids due February 6th. A. Whitehead, 1624 Latimer street, Philadelphia, is figuring.

New Jersey

Contracts Awarded

Dairy Building, Camden, N. J. Architects, Hewitt, Granger & Paist, Bourse Building. Owners, Garden State Dairies, 330 Berkley street, Camden, N. J. Brick and terra cotta, three stories, 65x102 feet; wing, 25x27 feet, tile roof, metal sash and frames, marble interior, waterproofing, elevators (heat and light reserved). Contract awarded to Barclay White Company, Perry Building, Philadelphia.

Residence, Ocean Front, Ocean City, N. J., \$12,000. Architect, private plans. Owner, E. Lawrence, Master and Frankford avenue, Philadelphia. Hollow tile, three and one-half stories, 34x46 feet, slate or asbestos roof, electric lighting, hardwood trimmings and floors. Contract awarded to Barker & Neuberger, Ocean City, N. J.

Residence, Woodbury, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Frank H. Stewart, 37 North Seventh street, Philadelphia. Stone, two and one-half stories, shingle roof, electric lighting, hot air heating and hot water heating, hardwood floors. Contract awarded to J. B. Best, Woodbury, N. J.

Storage Building, Riverside, N. J., \$3,000. Architect, private plans. Owner, John Guergesen, Riverside, N. J. Frame, two stories, 40x100 feet, slag roof. Contract awarded to Alex. Bright, Riverside, N. J.

Residences (2), Riverside, N. J., \$5,000. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, Charles H. Zeigler, Riverside, N. J. Frame, two and one-half stories, shingle roof, hot air heat. Contract awarded to George Arndt, Riverside, N. J.

Laundry, Pennington and Chelton avenue, Trenton, \$5,000. Architects, J. O. Hunt & A. Swan, 206 East Hanover street, Trenton. Owners, Union Troy Laundry Company, care

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of L. C. Thompson, care Bleakley Laundry Company. Brick, one story, 53x90 feet and 80x127 feet. Contract awarded to F. Giedlinski & Son, 19 Wayne avenue, Trenton, N. J.

Apartment House, Ocean City, N. J., \$4,500. Architect, private plans. Owner, A. H. Stansberry, 415 Commerce street, Philadelphia. Frame, two stories, 30x46 feet, asbestos shingle roof, electric lighting. Contract awarded to Barber & Neuberry, Ocean City, N. J.

Storage Building, Broad and Chestnut streets, Camden, N. J., \$3,000. Architect, private plans. Owner, H. Hoffman, on premises. Brick, two stories, 30x40 feet, slag roof, electric lighting. Contract awarded to Harry Foulkes, 566 Line street, Camden, N. J.

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

You can't get figs from thistles. Nor can you get an assured income from a shoe-string advertising proposition.

Eugene V. Barthmaier, formerly with Baker & Dallet, also Louis Carter Baker, has opened offices for the practice of architecture, at 208 Bulletin Building. Mr. Barthmaier will be glad to receive catalogues and samples of building materials.

REPORT OF THE COMMITTEE ON QUANTITY SURVEYING

Sullivan W. Jones, Chairman.

(Read before 47th Annual Convention of the American Institute of Architects.)

Your Committee was appointed less than three months ago, and, therefore, has had little time or opportunity to accomplish much in the way of constructive work. Our effort has been devoted to establishing a technique and a groundwork of facts, with which as a basis a comprehensive campaign of education may be undertaken and real progress of a practical nature be made.

The many disquieting aspects of the contracting business have been given such careful analytical study as the time would permit. It is evident beyond doubt that there are forces at work which, if not checked, will ultimately result in the complete ethical demoralization of the contractor. The origin of these forces is traceable directly to the present basis of competitive bidding; namely, the drawings and specifications, which, at best, constitute a most obscure and uncertain means of computing values.

The economies of the present method of estimating have also been given close study and some statistics have been compiled, which, because of their amazing character, became a compelling argument for a radical reform, and an argument which cannot fail to convince the owner that his co-operation with the architect in the effort to establish fairer and cleaner methods will result in a very material benefit.

Much justifiable, but, under the existing difficult conditions of practice, unjust criticism has been directed against the architect for the general deficiency and obscurity of the drawings and specifications he issues for the purpose of estimate. The essential function of the drawings and specifications in the contract is to define and limit the character and amount of work to be included in the bid and the subsequent contract, with such precision and clearness that they are capable of only one definite interpretation. Their failure to do function, with the consequent injection into the situation of many elements of uncertainty, transforms competitive bidding into reckless gambling with quantities of labor and materials, and with the future chances of recouping possible and probable losses through securing inordinately profitable extras and through the sandbagging of the sub-contractors.

Competitive bidding is fast degenerating into a disgraceful scramble from which the contractor who will take the longest chances generally emerges as the successful bidder. These conditions are undermining the contractor's moral stamina and are fostering and encouraging business brigandry in the field of building instead of honesty and efficiency.

We are all more or less familiar with the

manifestations of this form of decadence; and indeed we are all finding it increasingly more difficult to secure thoroughly honest work under the lump sum contract, awarded through competitive bidding. Some architects, and the number is constantly increasing, have tried the cure of eliminating the general contractor, and have succeeded in overcoming at least a part of the trouble. But this treatment alleviates the symptoms only; it does not reach the roots of the evil. We now face a situation demanding that a sound and positive basis be provided for fair and equitable competitive bidding with which honesty, ingenuity, knowledge and efficiency shall be the factors of success.

In approaching a discussion of the economies of competitive bidding under existing conditions, your Committee wishes to state that it has merely scratched the surface of a subject of vast proportions and far reaching in its intimate relation to the whole question of the high cost of building and to certain contributing causes of the high cost of living.

The cost of estimating to the general contractor and his sub-contractors collectively, according to statistics compiled upon data collected from a great number of contractors in all of the trades, is slightly over one per cent. of the amount of the estimate. There is a wide variation between the costs of estimating as stated by the various contractors. Some have kept careful cost data and others have not. The result given is obtained by fixing the average cost in each trade expressed as a percentage of the value of the work under the trade, and reducing this average to a percentage of the cost of the entire work. To illustrate: We find that there is an average of nine bidders on structural steel. The average cost of estimating structural steel is one-sixth of one per cent. of the amount of the estimate. Therefore, the total cost of estimating the structural steel for one building is nine times one-sixth per cent., or one and one-half per cent. of the value of the steel. The structural steel item averages about ten per cent. of the cost of the building, and the cost of estimating the steel expressed as a percentage of the cost of the building would therefore be ten per cent. of one and one-half per cent., or fifteen one-hundredths per cent. A similar extension is made for each trade, and the result column totaled. Generous allowances are then made for the submission of estimates by the same sub-contractors to a number of the general contractors bidding, which is usual. There is an average of ten bids taken on each building, and each contractor receives an average

of seven sub-bids in each trade. Re-estimating is frequently resorted to, but no consideration has been given to this further source of waste in computing the net results.

The general contractor usually estimates the mason work and rough carpentry, and occasionally the plastering and the erection of structural steel. But even if the general contractor is eliminated, the situation does not change, for the same duplication of the work of estimating then occurs in the trades usually handled by him.

The cost to the contractor of all estimates is charged to "overhead," and must eventually be distributed pro rata over the cost of work actually secured and executed. Under the law of averages each contractor secures one of every ten jobs on which he submits tenders. The accuracy of this reasoning is verified by the statement secured from various contractors. It therefore becomes evident that each owner pays the cost of estimating ten jobs of the same value as his own, in nine of which he has not the slightest interest. In other words, ten per cent. of the amounts of all estimates represents estimating cost under the inefficient methods now employed. Conversely, it is evident that by doing away with the duplication of the work of estimating, and allowing for the sake of argument, three per cent. of the cost of the work for the preparation of complete bills of quantities and estimating data and the cost to the bidders of pricing such bills, we may certainly effect a reduction of seven per cent. in the cost of building generally. This reduction expressed in dollars reaches the appalling figure of \$84,000,000 for the United States for the year of 1912, and this figure is safely conservative. This loss is suffered on the one item of estimating. Your Committee submits that an equal, if not greater, amount is lost to the owner annually as the result of illegitimate profits accruing to the contractor through inordinate extras, substitutions and evasions made possible by basing the contract on loose and deficient drawings and specifications. A further loss results from accumulated interest charges on payments improperly withheld both from the general contractor and from the sub-contractor.

All losses must ultimately be absorbed by the business and offset by the profits. The losses above enumerated are, therefore, charged against the building. The effects of this super cost are accumulative; rents and taxes are increased correspondingly, and the increase is paid year after year until the accumulated aggregate loss passes into figures outside the sphere of human comprehension.

Reflecting upon these conditions, your Committee reaches the conclusion that the duplication of work in estimating should be done away with by adopting the system of estimating on bills of quantities prepared and issued with the drawings and specifications, and that the bill of quantities be made the basis of the contract. Your Committee believes that the owner should pay the cost of preparing the bills of quantities and that he should assume responsibility for their accuracy.

In connection with the expression of these beliefs, we would briefly answer the objections which are usually raised against them. The owner's objection to being asked to pay the quantity surveyor's fee is completely satisfied by the statements on the actual money waste resulting from the present method. By making this further direct payment, the owner actually saves a very considerable amount and is assured of receiving full value for money spent. The objection to the owner's assuming responsibility for the bill of quantities is met by submitting that a bill of quantities prepared by a competent surveyor in free and interested co-operation with the architect, can only result in the production of a complete bill and of drawings and specifications closely approaching perfection. All questions as to the true intent and meaning of the drawings and specifications will arise before bids are taken instead of after the contract is let, as is now the case. Furthermore, the length of the quantity surveyor's business life will depend entirely upon the accuracy with which he does his work and with which his bills co-ordinate with the drawings and specifications in the construction of the work. It will be incumbent upon the quantity surveyor to see to it that not only his bills but also the drawings and specifications are clear and complete before issue. We believe that the quantity surveyor in this country must be an organization composed of experts in each trade. This will overcome the objection that much valuable time would be lost in preparing the bills. These submissions are respectfully referred to your serious consideration.

The determination of the most expedient method of procedure for inaugurating such a radical change is an extremely difficult problem, and your Committee is not prepared at this time to make any definite proposals. We believe the establishment of uniform standards and rules for the measurement of materials incorporated in the structure is a condition precedent and essential to the successful operation of the system in this country; thus avoiding confusion such as results in England from the use of three standards or systems. In order that this whole important matter may be given the further careful study it requires, your Committee makes the following recommendations:

1. That the Committee be continued for one year to report to the next convention.
2. That each Chapter be requested to appoint a committee to study the conditions in its territory and co-operate with the Institute Committee.
3. That each architect discuss the question with his clients for the purpose of starting a campaign of education, and report from time to time to this Committee through his Chapter Committee, so that the owner's attitude may be accurately ascertained.

Respectfully submitted,

LEON COQUARD,

C. L. BORIE, JR.,

SULLIVAN W. JONES,

Chairman,

Committee on Quantity Surveying.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

SOME MORE ADVERTISING "DON'T'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against progress. The best equipped shop never asks as much as the gloomy, ugly, and unobliging establishment. Be progressive.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;

We may live without friends, we may live without fads;

But business to-day cannot live without ads.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

A PLEA FOR GREATER FREEDOM—INDEPENDENCE IF YOU WILL—IN ARCHITECTURAL DESIGN

By W. R. B. Willcox, former President Seattle Chapter, A. I. A.

Not many years ago an architect friend was showing me a house he had recently built for himself, and after reviewing the peculiar conditions he had tried to meet, as if conscious of some possible peculiarity, remarked: "It seems good for once not to be practicing architecture." "What were you doing?" I asked. "Don't you call that architecture?" Evading the question, he replied, "My sister calls it downright —." I leave it to you to picture in your minds what an interesting house it was.

But the conversation seemed to hold a subtle inference that the conditions of architectural practice are somehow inimical to a straightforward solution of present-day problems, or that simple, direct treatment of economic and structural needs does not produce the kind or quality of architecture generally aimed at in actual practice. What, then, are the conditions of the "practice" of architecture, as we regard it, which seem to admit of a feeling that, although a building combines with poetry, adaptation to purpose, discriminating choice of materials, pleasing proportions and shapely outlines, it somehow is independent of those very conditions?

Here was a building which united practical and aesthetic qualities, and yet there was something about it which, at least in the mind of its author, seemed to place it outside the category of works which are commonly recognized as products of the practice of architecture. Why was this so? I was aware that my friend was not thinking of the mechanical part of practice, which, in his own case, was not different from that of the average client; nor reflecting upon the difference that in his own case he received no money remuneration, since there would be no particular reason for rejoicing over that circumstance. He seemed to be expressing a reckless delight at having, for a time, rid himself of some vague, hampering restrictions, at having indulged in an unpermitted freedom.

Was this sense of freedom in the nature of release from the exactions of the usual client, his special and often incongruous requirements; or of escape from the difficulties of making a few thousand dollars cover a multitude of essentials; or of absence of the need of effecting a practical compromise between the accommodations required, peculiarities of site, cost and the like? Certainly, all these chains bound him in the pursuit of his own ideal domicile. To my mind it was freedom of another sort, a freedom which is enjoyed by almost every architect when he undertakes to build a house for himself. He had realized an opportunity to do just as he pleased without thought of conforming to any conventions whatever.

It is probably due to an abandon of this

kind that architects' houses so often seem "odd" to the layman. I have known several such instances and often we have heard the question asked, "Why do architects build for themselves houses so unlike those they build for other people?" We do a considerable amount of talking about building to fit the owner, insisting that a house should have a note of individuality which should be indicative of his peculiar traits, but if, really, we acted oftener upon that principle there would, I think, be a greater freshness and distinction in the work of present-day practitioners and greater diversity in the character of buildings; the matter of "style" would be less marked and an added interest would invest architecture.

Certainly architects differ not widely in the ways of life, from other people among whom they live. They give themselves to work and play, to reflection and friendship, about as others do. If they differ from other people it is only in respect to the more personal traits and habits in which they differ from each other. But in building for themselves their work reflects more sharply those personal differences than it does the difference between their clients when building for them. In the latter cases is noticeable a more or less settled conformity to types or "styles." The same types recur endlessly in connection with clients of widely different traits and habits, education and environment. We all know what they were.

An acquaintance, glancing through an architectural journal the other day, happened upon a picture of one of the familiar types and exclaimed, "Why don't architects give us something new? I've seen that sort of house ever since I was born!" Now, it is a simple thing to say that people come to us for houses of this or that kind and we try to give them what they want, but that does not relieve us altogether of responsibility, unless we refuse all blame for what they want. Have we not had clients who impressed us as wanting something they really did not particularly like? Just as those who twenty years ago played tennis when they did not particularly enjoy it because it was quite the fashion, and now play golf although they do not altogether enjoy it, for the same reason—so I think our clients are apt to want to have their buildings conform to one of the prevailing fashions, whether they really like it, or whether it is particularly adapted to their needs, or not. And we are glad to accommodate them; it relieves us of the necessity of pushing an analysis of their personal and family characteristics, and those of site, to such limits as is necessary to establish the fundamental facts upon which a truly creative design is based; it puts upon them the onus of fitting themselves to their houses.

As a consequence architectural fashions result in as many, and as deplorable, misfits as does fashion in dress. Sometimes a fashion fastens upon a single feature. In such cases, the ingenuity of the architect is taxed to the utmost—if he does not give up in despair—to disguise it in such a way that it may not violate the purity of the adopted "style" to which, originally, it was a stranger. I have known a fashion for a certain kind of bay window to spread through a community like the plague. No new house could by any chance be built without one, and old houses had to be altered to accommodate them whether or not they served a useful purpose. The sleeping porch furnishes a present case in point. Whether or not it supplies the needs, or serves the habits, of a household, whether or not it lends itself to our predetermined "style," it must be included in the scheme of things. But bay windows and sleeping porches, being minor details, must not be permitted to affect the general character of prevailing fashions; rather must they be engrafted upon them with such provision for concealment as the circumstances and the imagination of the architect will permit.

Now, while all possible fashions are not in vogue at the same time, they are very well known; they are all embraced in the historic styles of architecture, and if one is to confine himself to the decorous "practice" of architecture his range is really limited to them, for so far as such practice is concerned, architecture is regarded as an exhibit of the various styles of building known to man, the last of which was evolved a few hundred years ago. Beginning with ancient Egypt we find that the various races and periods have supplied each its special contribution—Persian, Assyrian, Grecian, Roman, Saracen, Byzantine, Romanesque, Gothic, Renaissance, etc.—and while certain quirks in each are accorded distinctive names, the exhibit is complete. Pictorially, it has been preserved in collections of photographs and plates which have become important articles of commerce and ever ready aids to the practice of architecture. Figuratively, it is like a box of colors which one may open to find all the various pigments. If one has a degree of skill and daring, he may combine them in a chromatic effect with more or less success, but with liability of severe criticism, while if he would lessen the chance of harsh judgment he will limit himself to monochrome.

So, as architects, we have convenient access to all the models comprising the exhibit of architecture. If of the stripe of genius we may combine them and possibly escape anathema; if of lesser breed we would best devote ourselves studiously to one at a time. Rank in our profession is often established by our apparent knowledge of "complete architecture," and upon our facility, ingenuity and accuracy in adapting the models, there of record to the very unlike and infinitely more complicated requirements of our time and people. To ignore or disregard the limitations of this repository invites judgment of us as unscholarly, and brings upon us the

(Continued on page 70.)

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Mr. H. B. McMaster is a Commissioner for the Associated Metal Lath Manufacturers. In his capacity as an expert upon certain phases of fire prevention he was called upon not long ago to prepare a paper on "The Relation of Fire-Resisting Materials to Fire Prevention," a paper read before the Up-to-Date Club at Youngstown, Ohio. So much tommyrot is written upon the subject of fire prevention by persons in the pay of the sprinkler interests that a sensibly considered contribution such as Mr. McMaster's is in danger of being "lost in the general shuffle." Mr. McMaster, it will be noticed, does not advocate the automatic sprinkler as the one attainable panacea for all the ills to which modern building is heir. Nor does he hold to the fantastic theory advanced by another wing of the fire-fanatic element that trim, furniture and everything else in the building of the future must be of concrete, metal or something else equally unburnable. As a student of his subject, Mr. McMaster knows that the great bulk of the fires reported are due to carelessness; carelessness in storing inflammable material, carelessness in construction, carelessness in providing against sharply-defined possibilities of danger.

* * *

"The first and fundamental cause of great fire loss," writes Mr. McMasters, "is that our buildings are piles of fuel with conveniently arranged flues to facilitate the spread of fire.

The one who appreciates the need for fire prevention measures is the fireman. When building owners, architects, engineers; tenants and the rest of us are standing back at a safe distance fascinated and thrilled by the display of destructive forces at a fire, the department officer may be sending his men into a burning building to save a city from destruction. These men, upon whom the responsibility for fire-extinguishment rests, are the champions of fire prevention measures and, above all, of construction that will prevent and not help along a conflagration.

One of the most important functions of the up-to-date fire department now is inspection service; that is, the detailing of every man in the department to the systematic inspection of a city with the purpose of minimizing the fire hazards.

One of the common causes of fire is the presence of litter at places where a spark or incipient blaze may reach it.

An inspecting fireman's report on a condition of this sort is followed by an order to the property owner to "clean up." In some cities this feature of the fireman's work is carried to the extent of inspecting to determine the existence of crossed or overloaded electric wires. It all goes to show that the fireman himself appreciates the inadequacy of fire-extinguishment to cope with

the situation and the department commanders will always be found on the side of a clean city and fireproof construction.

* * *

As a further illustration of the inadequacy of fire-extinguishment to meet the situation, we might compare Berlin with a population of about 3,000,000 with Chicago of two-thirds the size. Berlin has an annual fire loss of \$175,000; its fire department costs a little over \$300,000. Chicago's fire loss is \$5,000,000; it has a whole lake of water along side of her and the fire department costs over \$3,000,000.

There is very little inflammable material used in buildings in Berlin and the owner of a building in which a fire starts is made to bear the expense of extinguishing his fire, also to reimburse all losses to others, and if he is particularly culpable, he may have to pay a fine, too.

Further comparisons may help to a fuller appreciation of the ridiculous position we occupy from a broad economic standpoint.

Per

Population. Loss. Capita.

Frankfort, Germany..	324,500	\$ 99,492	\$.31
Cincinnati, Ohio.....	324,230	1,971,217	6.08
Birmingham, Eng....	550,000	226,506	.41
Baltimore, Md.	553,669	916,603	1.65
Toulon, France.....	101,602	55,391	.55
Atlanta, Georgia.....	104,984	225,237	2.15

Is it any wonder that in the United States insurance costs on the average one dollar a hundred, while in Europe the cost is ten cents a hundred?

* * *

In Europe, where building laws have been in vogue for many years, the fire records show conclusively the efficiency of building regulations.

In 1891 the National Board of Fire Underwriters requested the United States Department of State to make inquiries through its consular service regarding building conditions, building regulations, and fire losses in cities throughout the world, the figures to cover the year 1890. I will use just a few examples of the smaller cities reported. The consul at Calais, France, reports a population of 56,000, with practically no wooden buildings, all being of stone or brick. This latter material being the most plentiful.

The number of fire alarms for the year was 7, of which 6 were only chimney fires. The fire department was a volunteer organization and the total loss for the year was less than \$4,000.

The consul at Carthagenia, Spain, reported a population of 50,000, all buildings of brick and stone; no fire alarms for the year 1890, the fire loss was but \$3,000, and for 1891 it was \$2,400. This city has no fire brigade.

Huddersfield, England, population 95,000, practically no wooden buildings, 28 fire alarms

for the year and a total loss of about \$8,000. No fire got beyond the building in which it started.

After studying such statistics as these, can we doubt for a moment the wisdom of building to resist fires?

In general, the reports from European cities show that very few fires spread beyond the floor from which they started, and extremely few spread beyond the building of their origin, and when this happens, it is called a conflagration.

* * *

The fire loss in European cities at the present time compared with that of American cities is at the ratio of 1 to 7½.

The cost of maintaining fire departments in European cities is about 25 cents per capita per annum, while in American cities it is about \$2.57, or 10 to 1; therefore the cost of fire loss and fire fighting combined averages in European cities 58 cents per capita per annum, while simultaneously in America it cost \$5.07, or at the ratio of 8¾ to 1. This difference is due, I am convinced, almost entirely to better building conditions.

Every fire is due to one of three crimes: the crime of ignorance—the man don't know that certain conditions will burn his place; the crime of carelessness—the man don't care whether his place burns or not; the crime of dishonesty—the man wants to have his place burn and cash in at the expense of his neighbors.

The first can be corrected by a systematic plan of education, and in this connection much might be done to overcome the everyday condition of fire hazard by instruction in the schools. Our schools are the greatest mediums for molding character.

Poor construction tends to enormous loss and conflagration, but every conflagration had a tiny beginning, and it is necessary that we be cured of this "mind habit" of indifference in order to remove the common causes of fire.

* * *

Until recently "conservation" did not have much of a place in our vocabulary; "waste" did. We were rich in natural resources; seemingly there was no end to the gifts we enjoyed. Our forests were inexhaustible, our mines good for centuries and the more buildings that burned the better it was for trade—at least that was the spirit that inspired most of our construction. It became a national trait. The reason can be found, too. From the time the first white man set foot upon this land haste and waste, and rush and expediency prevailed. Our forbears were anxious to get all the precious metals and minerals out of the hills, grain out of the soil, and hides off the wild things and hustle back home before the other fellow came. Men came here in the hope of going back as people of the present generation have gone to Alaska.

The home was a temporary affair, hastily put together. Wood was at hand and in abundance, easily obtained and easily worked; it was natural it should be used and chances taken with the fact that it also easily

burned. We have continued that "pioneering" to this day. We have not entirely outgrown the habit of mind which our ancestors had. As communities we have yet to acquire a greater spirit of altruism in the making and enforcement of building laws. It is, however, worthy of thought that if we had practiced this conservation from the beginning of the nation, we could not have grown as quickly as we have into the most glorious example of progress in civilization and nation building in the history of the world.

Poor construction undoubtedly creates large losses out of small fires. Good construction may prevent damage beyond that resulting from an incipient blaze, but the number of incipient blazes will be very much lessened if we can create a sentiment against indifference, carelessness and dishonesty.

* * *

In a serial entitled "The Business of Arson," by Arthur E. McFarlane, which appeared in "Colliers" early in the year, the author makes the rather startling statement that incendiarism, either active or passive, is responsible for one-half our fire loss.

The weight of evidence is against this statement.

It is probable that incendiarism is responsible for less than 25 per cent. of the fire loss, which is bad enough and calls for extraordinary corrective measures. It is interesting to know that the Underwriters have what is termed an "Arson Fund," from which rewards are paid for the apprehension and conviction of fire bugs.

The essentials of fire-prevention are an elimination of over-insurance; restrictions on the use of the strike-anywhere match, and other measures of that sort to prevent accumulations of litter and waste and to insure the proper control of explosives and inflammables, etc. Finally, we must have non-inflammable buildings. There are other phases of fire-prevention worthy of lengthy discussion which the limit on our time prevents entering upon.

It has been estimated by the underwriters that 27 per cent. of the fire loss in this country comes from fires that extend beyond the buildings in which they originate.

A reasonable conclusion is that these losses are due to the inflammable construction of our buildings.

To correct this a proper building code should be adopted in every State and municipality.

* * *

Considering the waste on account of the cost of fire extinguishment and of premiums paid in excess of losses, the average loss today in the United States is \$5.36 per capita, or \$26.80 per family per year. That is \$2.82 for protection and \$2.54 for fire. Corresponding figures for Europe are only 57c. and 48c. respectively—a total of \$1.05 per capita, or \$5.25 per family.

We might assume that with European construction our buildings would cost 10 per cent. more, which might make rents 5 per cent. higher. Even this would bring a sav-

ing to every American family besides saving thousands of lives and preventing untold misfortune, suffering and inconvenience.

The waste of resources in America due to fires and fire protection is greater than the net earnings of all the railroads.

The fire loss, if it could be saved, would pay the enormous amount spent for pensions, also the interest on the national debt and leave a surplus of one dollar for every man, woman and child in the United States.

If the amount expended for fire protection and wasted by fire could be put into good roads, we could build over 50,000 miles of the best roads each year.

We are a nation of money makers, Europe is a people of money savers; we are a people of waste, they are a people of thrift.

We figure that the most important thing is to make a dollar, and they that it is of equal importance to save one."

* * *

All of which would seem to bear out in a more or less authoritative way the oft-expressed contention of "The Guide" that given good building and a system of inspection that will not only inspect but that will enforce its orders, and the fire problem may be depended upon to settle itself. One would think, to read certain trade literature, that Europe was a network of sprinkler attachments, and that her comparatively small fire loss was due to the absolute efficiency of these contrivances. Mr. McMasters recognizes the fact that Europe's immunity from heavy fire loss is due to good building and an adequate and unhampered system of inspection backed up by drastic laws and regulations. Concrete, metal trim, automatic sprinklers, however admirable in a limited application, are not regarded abroad as all-necessary or in any sense indispensable. Nor should they be so regarded here, let the fire-fanatics rave as they will.

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Do It Now.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

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Don't buy or rent a house unless it is wired and equipped for Electric Light!



A PLEA FOR GREATER FREEDOM IN ARCHITECTURAL DESIGN.

(Continued from page 67.)

pity, if not the contempt, of our fellows and the initiated among laymen.

This is no light matter. We shrink from exposure to such sentiments, and therefore we try to control our emotions; oh, we become very self-conscious! Efforts at composure and nonchalance preoccupy us. Fear of ridicule and desire for the approbation of our professional brethren, far more often than that of the public, combine to discourage sallies beyond the confines of accepted precedent. Timidity and vanity restrict our freedom—so long as we “practice” architecture. It is only in certain circumstances—such as doing a little architecture for ourselves, or for some sympathetic friend—that we claim a tacitly granted exemption from the application of the standards of practice, or defiantly snap our fingers at its cramping conventions.

While I have dwelt on house architecture because my friend's remark was in that connection, the same conditions prevail even where practical considerations of plan and the perfection of new structural devices have entered in a way, it would seem, to make freedom the more easily attainable; but seldom in design, have we ceased to fight the impulse to enjoy it. Our commercial structures have been forced into shapes and masses strange to historic architecture, while what we have done, in by far too many cases, has been to disconnect and dissociate the parts that give to the older entities their aesthetic expression, and, spreading them over structural surfaces, to exclaim upon their elasticity. Elasticity is a quality pertaining to the homogeneity of an original whole, and does not fitly describe a condition of mechanical detachment of its separate parts, such as the distribution, in isolated lines and patches

over a structure's integument, of features culled from historic methods.

And this tendency to hang, desperately or with self-complacence, to the old ideas, when the evolution of new ideas would be vastly more interesting, if not so aggressively authentic, is found in other types of buildings, despite the fact, as stated by a well-known psychologist, that “civilization is impossible without traditions, and progress is impossible without the destruction of those traditions.” Not so very long ago I was reading about a new and important church edifice, designed by a prominent architect. The author of the article substantiated the validity of the assertion just quoted, for by way of introduction, he said: “It seems apparent that the time has come when a living and constantly developing church cannot content itself in its visible expression with the unmodified types of design created in the past under vastly different conditions to express somewhat different conceptions.”

But the designer of the building apparently had reached no such point of view, since in the following descriptions, which are abbreviated, I came upon these evidences of reactionary purpose:

“It was endeavored to plan the various departments * * * everywhere adhering as closely as possible to the arrangement hallowed by centuries of venerable use. * * * Only where the outlines of the property or the sharp slope of grade necessitated deviation from established tradition has any departure been ventured.” And again, “Its plan, with the exception of the single variation from type already mentioned * * * is precisely similar to most English examples of medieval cathedrals.” Lastly, in speaking of a deviation in design, as apart from the plan, the author seems to excuse it on the ground that it is “so small and insignificant, it is hardly to be noticed.”

Thus, insidiously, are we led to value a building, not because it is an exemplification of the great, essential qualities of all architecture, but because it is a slavish, though clever copy of the work of a distant generation of another people.

Since writing this paper I happened upon an article in “Harper's Magazine,” entitled “Is America on the Map?” in which American imitative tendencies are remarked upon, and I want to quote a portion of it which pertains to our architecture:

“Not long ago I was conducting a traveled German friend about a famous American university. It struck me before I had gone far that I had precious little to show him that could interest him. ‘That tower you recognize, of course,’ said I. ‘It is an exact duplication of the tower at Magdalen at Oxford. This hall is an exact reproduction of the hall of Christchurch; we have even reproduced the armorial bearings of the scions of nobility that have been Christchurch undergrads. That row of buildings, as you will see, repeats the architecture of Merton. In fact, I think we have everything of Oxford here except the nose of Brasenose. There goes a procession

of students. See how natural they look in mortarboards and gowns? Yes, we think we have done pretty well here; you might think you were in Oxford itself.’

“‘Well,’ said he, ‘Oxford is Oxford and this America. Now show me something American.’

“‘There's a football game,’ said I.

“‘Rugby,’ said he. ‘Your national emblem is, I believe, an eagle. You will not think me discourteous, will you? I've looked so long for something American. It has at times seemed to me that a more strictly correct emblem would be a parrot.’”

Yet twenty-five years ago Leopold Eidlitz was crying in the wilderness:

“Architecture is the art which teaches the development of structural forms. If, instead of developing forms, we borrow forms, we are not pursuing architecture as a creative art.”

“An architectural monument must be developed out of its own motive, and not out of any other structure, or series of structures, no matter how good they may be, or how old.”

“The mechanic art of building never stood higher than it does in its present perfection of theory and practice—but whenever the architect resorts to modern engineering, he abandons his art as inapplicable, when he attempts the pursuit of architecture as a fine art, he evades scrupulously all modern construction.”

“Architecture has either ceased to speak of living ideas, or modern architects do not comprehend the ideas of the times.”

Thus at the bar of the pragmatist are we condemned. If we undertake a defense, it shall not profit us to overlook the fact that the whole world is, to-day, in a state of flux; that in every direction great changes are rapidly succeeding each other; mechanics, chemistry, medicine, astronomy, government, religion, economics, literature, painting, sculpture, music—each is keeping pace with the progress of modern thought. In architecture there is a legitimate question whether we are really cognizant as yet of what is going on about us. We spend our time and effort in devising new adaptations and ingenious rearrangements of old forms, and consider that the results obtained have to do with a living architecture, much as the old-time theologians discussed the enlivening theme of how many angels could stand upon the point of a pin, and conceived an answer to have something to do with a living religion.

If we are satisfied to be thus engaged, it is not to be wondered at that we are lonely, that the world is leaving us behind with our fossils, while it strides on toward better, greater, more potent things. We would not deny that the old work is beautiful—too beautiful, perhaps, for us to-day. It may be that our day, its conditions and ideals, does not yield or demand the beautiful, as the old things were beautiful, but certainly it does demand, as it has every right to do, that its notions and ideas, its present hopes and de-

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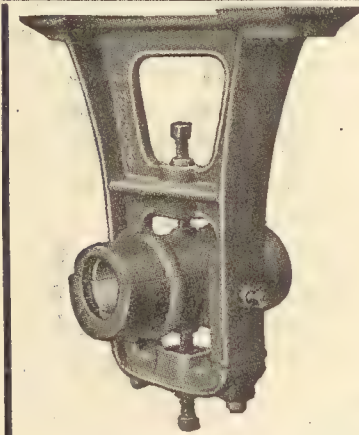
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sires, whatever they may be, shall be given such shape as shall express its real life.

If, as architects, we persist in ignoring its craving for self-expression we need not complain if our generation looks for its prophets to those whom we may esteem less qualified to interpret its needs and aspirations, but who are willing, with such ability as they may have, to respond to its newer impulses. We may continue to practice architecture in terms of the past, to hold ourselves aloof from, or to battle against, present-day tendencies and trends of thought, but never thus shall we build an architecture alive with the life of to-day. As Theodore Roosevelt has said but recently:

"A great art must be living, must spring from the soul of the people; if it represents merely a copying, an imitation, and if it is confined to a small caste, it cannot be great."

It is admitted that a frank acceptance of the ideas that pervade our communities, and an honest, sympathetic effort to solve their problems from their own point of view may result in what seems to us strange at first, but we may gain comfort and poise by reflecting upon the words of a noted artist:

"What is new must always be strange, and what is strange, must, except to a few adventurous souls, prove disturbing, and hence disagreeable—but nothing fresh or good has ever come into existence without a convulsion of the old dried-up forms."

For myself, I welcome the signs of an adventurous independence in various quarters; independence, not of those fundamental and eternal principles of design, which concern proportion of spaces, direction of line, assembling and co-ordination of parts, and the disposition of masses, but of the restrictions with which the fetish of "styles" has so generally hedged about the practice of architecture. Their example will tend to drive us from our ancient anchorage and yield us a freedom that lies beyond the limits of the circumscribed and orthodox practice of architecture, a freedom which we may enjoy without explanation or apology; in which we shall be called upon to serve all the people, not merely those who, perhaps by our own blind acts and pedantic preachments, have come with us to look upon architecture as a complete, a finished thing.—
"San Francisco Architect and Engineer."

**Albert B. Baumann, successor to Baumann Brothers, architects, 715 Henson Building, Knoxville, Tenn., has purchased the entire interest in the firm of Baumann Brothers, and will continue the business at the present location, seventh floor of the Henson Building.

**Happ & Shelverton is the name of the partnership recently formed for the practice of architecture in and around Macon, Ga. The new firm will have offices in the Fourth National Bank Building, Macon, Ga., and will be pleased to receive catalogues and samples.

"The knowledge of to-day may be the ignorance of to-morrow. Then where are you unless you keep posted from day to day?"

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**J. Franklin Stevens retired from the partnership doing business under the name of Steward & Stevens Iron Works, on January 1, 1914. R. Steward Stevens, late a member of the firm, died May 17, 1913. The business of the partnership will hereafter be conducted by W. Nelson Mayhew and Samuel Frank, under the firm name of Steward & Stevens Iron Works, at Ninth street and Montgomery avenue, Philadelphia.

**The Richardson & Boynton Co., New York, announces the resignation of E. F. Glore, the company's New York sales manager, who has assumed a similar position with the Autocar Sales Company, New York. Mr. Glore was at one time Philadelphia manager for the American Radiator Company. Subsequently he organized the Glore Supply Company, in Philadelphia, of which he was president. He became manager of the Philadelphia office for the Richardson & Boynton Company, and was subsequently promoted to the New York office.

**The members of the National Builders' Supply Association will hold their annual convention February 17 and 18, with headquarters at the Hotel La Salle, Chicago, Ill. The first afternoon of the convention will be left open for a general visit to the Cement Show, which will occur in the Coliseum at that time. If the plans of the Board of Directors meet with the success now expected small dealers will be an important factor in the coming convention. As the dues of the association have been reduced it is expected that this will be the means of bringing many dealers into the organization who heretofore have felt that they were not doing sufficient business to justify them in affiliating with the supply association.

**The Kelsey Heating Company, Syracuse, N. Y., manufacturers of the Kelsey system of warm air heating, announces the removal of its New York office to 103 Park avenue, at the corner of Thirty-first street.

**The Semet Solvay Company, protective paints, has moved its New York City office from 100 William street to 30 East Forty-second street.

**New York Lumber Trade's annual banquet will be held at the Hotel Biltmore, Madison and Lexington avenues, at Forty-fourth street, on Tuesday evening, February 10.

**Colton & Hinman, architects, have opened offices for the practice of their profession in the Kirk Building, Syracuse, N. Y.

**The Pressed Metal Radiator Company, manufacturers of the Kinnear improved pressed radiators and Presto boilers, was among the exhibitors at the International Exposition

of Safety and Sanitation in New York, December 11-20, 1913. The exhibit included various styles of the pressed metal radiators and was in charge of J. F. Siegel, manager of the company's New York office.

**William S. Sloan and James A. Kilgour, architects, have formed a partnership for the practice of their profession, under the name of Sloan & Kilgour. They have opened offices at 1182 Broadway, New York City, and would be pleased to receive samples and catalogues from concerns interested in the building trades.

**Yale & Towne's new building at 9 East 116th street, New York City, was opened on Thursday, at which time architects, builders and real estate men in large numbers inspected the great hardware firm's new headquarters. The building stands on the site of the former home of the late Henry B. Hyde, founder of the Equitable Life Assurance Society, from whose widow the property was purchased.

**The American Blower Company, Detroit, Mich., announces that on July 1, 1913, it acquired the patents covering air purifiers and humidity regulating devices formerly controlled by the McCreery Engineering Company, of Detroit and Toledo. Hereafter, the apparatus formerly manufactured by the McCreery Engineering Company will be manufactured and marketed by the American Blower Company. The company states that it took this step after carefully investigating the various air purifying and humidity controlling apparatus and after becoming convinced that the McCreery patents covered the best-known principles in this line of work. The company is preparing new literature on this interesting line.

**Thomas Towne, formerly manager of sales in the Union Drawn Steel Company, has been elected second vice-president of the Gurney Elevator Company, 62 West Forty-fifth street, New York City. He will have charge of all sales and branches outside of Greater New York.

**Brice Hayden Long, architect, formerly of the Coal Exchange Building, Wilkes-Barre, Pa., has removed to the Miners' Bank Building, where he will continue to practice his profession under the firm name of Brice Hayden Long Company.

**Albert J. Romer, formerly engineer in the escalator engineering department of the Otis Elevator Company, has resigned his position in order to enter into the manufacture of cyclecars. Mr. Romer was formerly mechanical engineer with the U. S. Motor Company.

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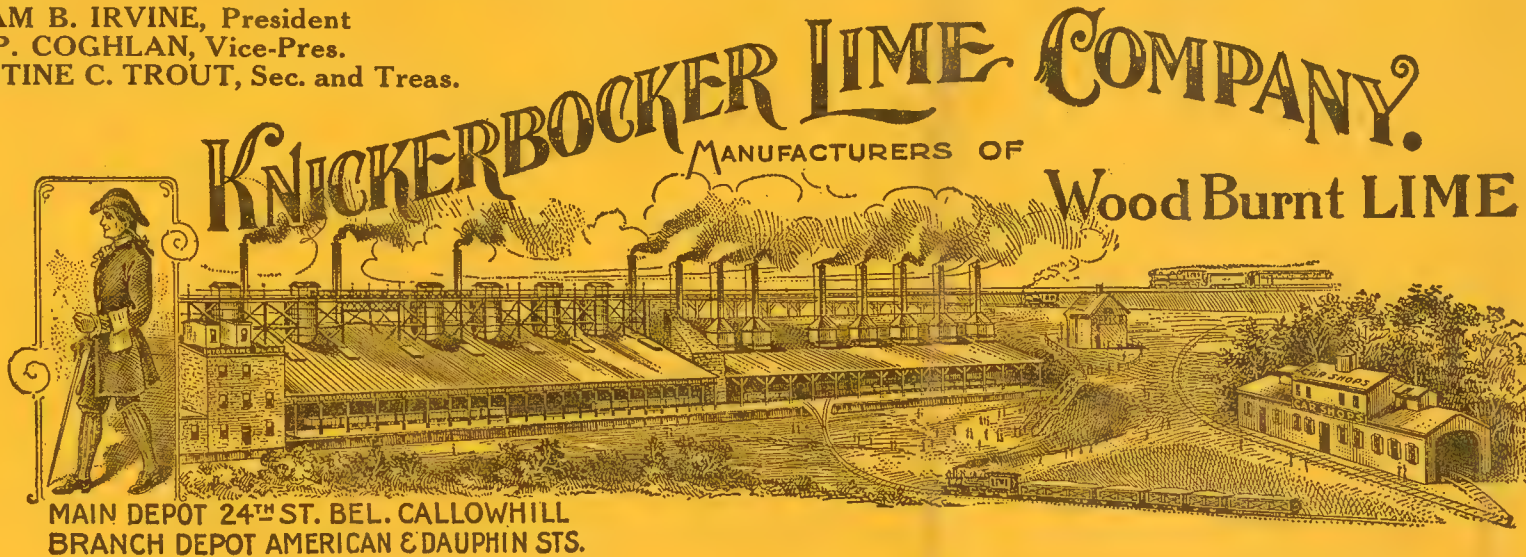
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Vol. XXIX., No. 5.

PHILADELPHIA, WEDNESDAY, FEBRUARY 4, 1914.

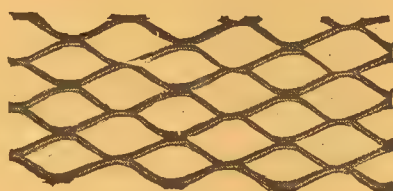
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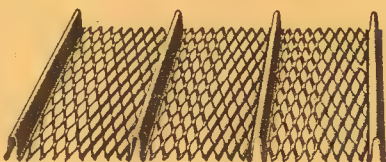


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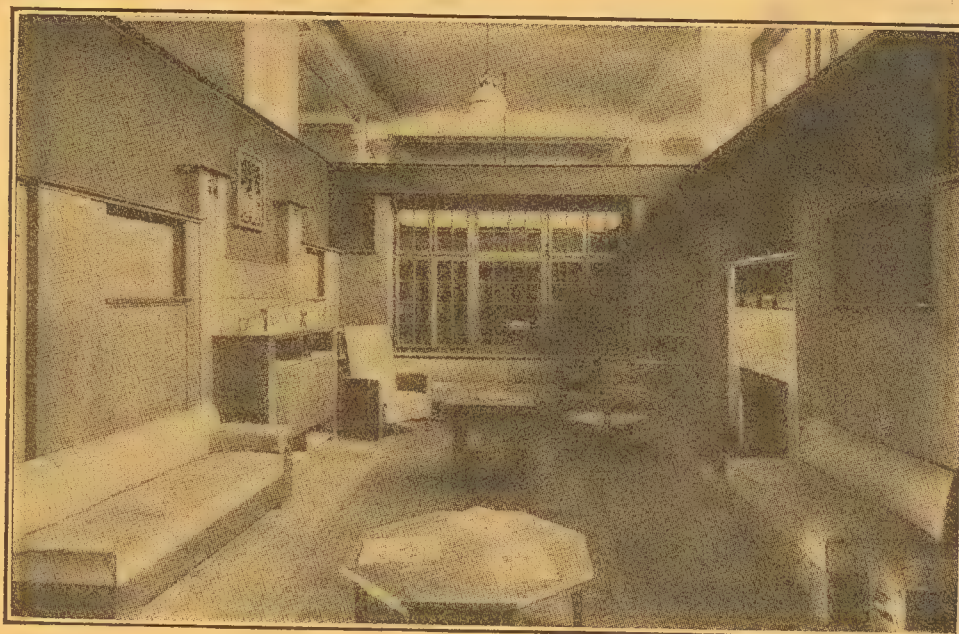
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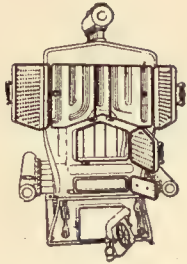
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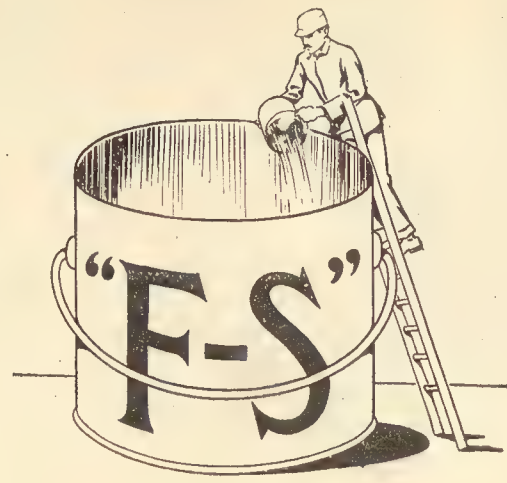
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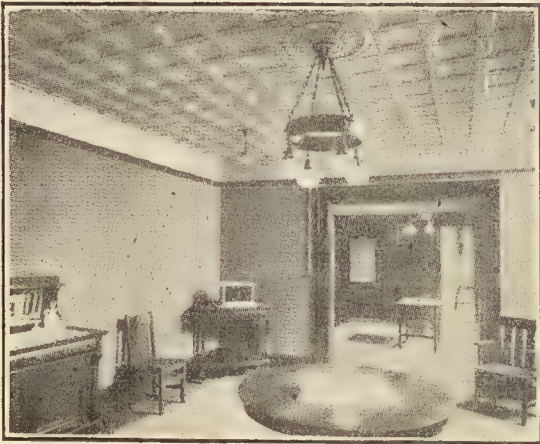
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PHILADELPHIA, WEDNESDAY, FEBRUARY 4, 1914.

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hotel (alt. and add.), Broad and Race streets. \$18,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Peter Braude, Island road and Bartram avenue. Brick, 4 stories, electric light, steam heating. Contract awarded to A. Whitehead, 1624 Latimer street.

Factory (add.), Twenty-third and Manning streets. Architects, Stuckert & Sloan, Crozer Building. Owners, Crane Ice Cream & Baking Co., Twenty-third street, below Locust street. Brick and reinforced concrete, 2 stories, 30x100 feet, slag roof, electric lighting. Plans in progress.

Factory, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, name withheld. Brick, 3 stories, 60x150 feet, slag roof, steam heating, electric lighting. Plans in progress.

Garage, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, name withheld. Brick, 1 story, 50x120 feet, slag roof, steam heating, electric lighting. Plans in progress.

Parochial School, Twenty-ninth street and Allegheny avenue. Architect, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Corpus Christ R. C. Church, on premises. Brick and stone, 3 stories. Bids in about two months. Plans in progress.

School, Forty-seventh and Locust streets. Architect, Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Brick and terra cotta, 3 stories and basement, 114x162 feet, slag roof, concrete and hollow tile fire-proofing, metal sash, metal lath, damp-proofing (heating and lighting, reserved). Owners taking revised bids due February 6th.

Freight Warehouses, Harrisburg, Pa. Engineer, A. C. Hand, Broad Street Station. Architect, William H. Cookman, Broad Street Station. Owner, Pennsylvania R. R. Co., Broad Street Station. Brick, steel and concrete, 1 or 4 stories, 26x400 feet and 50x440 feet. Plans in progress. Bids in about one month.

Bank Building (remodeling), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building. Owner, National Iron Bank

of Pottstown. Stone and brick, 3 stories, slag roof, electric lighting, steam heating, new banking fixtures. Plans in progress. Architects will take bids in about three weeks.

Sunday School Building, Fifty-third and Spruce streets. Architect, George E. Savage, Witherspoon Building. Owner, Bethany Temple Presbyterian Church, Rev. Asa J. Ferry, 224 South Fifty-third street. Stone, 2 stories, slate roof, steam heating, electric lighting. Architect, selected. Plans about to be started.

Residence, Narberth, Pa. Architect, George S. Idell, 34 South Sixteenth street. Owner, George W. McKinley, care of architect. Stone, 2½ stories, 24x34 feet, shingle roof. Plans in progress.

Picture Theatre, 765 South Second street. Architect, Frederick N. Greisler, 2560 Frankford avenue. Owners, name withheld. Brick and terra cotta, 1 story, 36x100 feet, slag roof, electric light, steam heat. Architect taking bids due February 15th. The following are figuring: E. Tourison, Mutual Life Building; F. Quate, 1323 Snyder avenue; E. E. Hollenback, Fifteenth and Race streets; B. Bornstein, 412 South Fifth street.

Residence, Media, Pa. Architects, Price & McLanahan, 1418 Walnut street. Owner, Dr. O. F. Janney, Media, Pa. Hollow tile and plaster, 2½ stories, 36x50 feet, slate roof, electric light, hot-water heating, hardwood floors. Architects taking bids due February 6th. The following are figuring: J. W. Worrell, E. E. & A. L. Flounders, Louis F. Green, Lindsay & Moorehouse and W. S. Worrell, all of Media, Pa., and J. B. Flounders, 1329 Arch street, Philadelphia.

Cottage, Fifty-eighth street and Thomas avenue. Architect, Paul A. Davis, 1713 Sansom street. Owner, Baptist Orphanage, on premises. Brick, 2½ stories, 30x84 feet, slate roof, electric light, steam heat, damp-proofing. Architects taking bids due February 6th. H. E. Grau Co., 1707 Sansom street is only bidder.

Residence (alt. and add.), Paoli, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, Samuel Horner, Jr., Land

Title Building. Stone, 2½ stories, consists of two wings, 25x30 feet and 30x30 feet, shingle roof, electric light, hot-water heat, hardwood floors. Architect taking bids due February 7th. The following are figuring: Thomas M. Seeds, Jr., 1207 Race street; E. E. Hollenback, Fifteenth and Race streets; George Croll, Rosemont, Pa. Frank Heavner, Norristown, Pa.; William R. Dougherty, 1610 Sansom street.

Bungalow, Valley Forge, Pa. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, Henry Bauer, Commonwealth Building. Brick, 1½ stories, 28x32 feet, shingle roof, hot-air heat. Architects taking bids due February 5th. The following are figuring: Elmer Poley, Trappe, Pa.; Albert Schumacker, Jeffersonville, Pa.; Eugene Tourison, 619 Mutual Life Building; J. C. Driscoll, 1326 Chestnut street; F. Heavner, Norristown, Pa.; F. Oberholtzer, Norristown, Pa.

Residence (add.), Villa Nova, Pa. Architects, Baily & Bassett, 427 Chestnut street. Owner, Howell Lloyd, Villa Nova, Pa. Stone, 2½ stories, 20x40 feet, shingle roof, hot-water heat. Architects taking bids due January 31st. The following are figuring: J. D. Lenge, Wayne, Pa.; M. N. Croll, Radnor, Pa.; Frank Heavner, Norristown, Pa.; J. J. Graham, Bryn Mawr, Pa.

Machine Shop, 1015-19 Hamilton street. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, H. B. Underwood Co., on premises. Brick, steel and concrete, 2 stories, 60x160 feet, slag roof, metal windows, electric light. Owners taking bids due February 4th. The following are figuring: J. W. Emery, 1524 Sansom street; P. J. Hurley, 1233 Cherry street; Smith-Hardison Co., 1606 Cherry street; J. N. Gill Co., Heed Building; Burd P. Evans Co., Thirteenth and Wallace streets; George & Borst, 277 South Eleventh street; Samuel Rea & Sons, 1608 Fairmount avenue.

Hospital (add.), Frankford avenue and Palmer street. Architects, Ballinger & Perrot, 1211 Arch street. Owner, St. Mary's Hospital. Brick, stone and terra cotta, 5 stories, 170x268 feet. Plans in progress.

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Residence, Chestnut Hill, Pa. Architect, Louis Carter Baker, 35 South Seventeenth street. Owner, Nathan Trotter, 36 North Front street. Stone, 2½ stories, 29x38 feet. Plans in progress.

Storage Building, Washington, D. C. Architects, Donn & Donning, Washington, D. C. Owner, Department of Commerce, United States Government, Brick, stone, fireproof, 2 stories, 30x124 feet, tile and slag roof, electric light, tile partitions, steam heat, expanded metal, water-proofing. Owner taking bids due February 7th. The following are figuring: J. E. & A. L. Pennock, Land Title Building; J. W. Emery, 1524 Sansom street; Ed. Fay & Sons, 2 South Mole street, all of Philadelphia. (Note change in date.)

Church, Norristown, Pa. Architects, Watson & Huckel, 1211 Walnut street. Owners, Norristown Lutheran Church. Brick and stone, 1, and 2 and 3 stories, 40x120 feet, tin roof, electric light (steam heat central plant). Plans completed. Architect ready for bids.

Twin Residences (13), Oak Lane, Pa. Architect E. Allen Wilson, 1208 Chestnut street. Owner, Matthew A. Roth, Thirteenth street and Cheltenham avenue. Plaster, frame,

3 stories, 16x50 feet, slate roof, electric light, hot-water heat, hardwood floors. Owner taking sub-bids on lines.

Store and Residence, Seventeenth and Christian streets. Architect, private plans. Owners, Baer & Snyder, 1539 Federal street. Brick, 3 stories, 16x55 feet, slag roof. Owners have received bids.

Office Building, Pittsburgh, Pa. Architect, J. T. Windrim, Commonwealth Building. Owner, Bell Telephone Company, 1320 Arch street. Brick and terra cotta, steel, fireproof, 9 stories, 58x180 feet, slag roof, electric light, steam heat, elevators, metal lath, metal windows and doors, fireproof partitions, water-proofing. Architect taking bids due February 7th. Charles McCaul Co., Tenth and Sansom streets, Philadelphia, are figuring.

Infirmary, Eaglesville, Pa. Architects, Magaziner & Potter, 137 South Fifth street. Owner, Jewish Sanatorium for Consumptives. Brick and frame, 1 story, shingle roof, electric light, steam heat, consists of administration building, power house, dining room, additional shack. Architects have received revised bids.

Theatre, Baltimore, Md. Architect, T. W. Lamb, 644 Eighth avenue, New York City. Owners, Pearce & Scheck, Baltimore, Md. Brick, steel and terra cotta, fireproof, 1 story, 108x141 feet, slag roof (heat and light, reserved), metal doors, metal lath, water-proofing and damp-proofing, Fenestra Sash and Kalemein Doors. Architect has received bids.

Residence, Limekiln pike and City Line. Architect, Leslie Headley, 234 South Sixtieth street. Owner, Robert K. Berryman, care Wayne Ice Manufacturing Co., 4166 Wayne avenue. Hollow tile and plaster, 2½ stories, 30x40 feet, slate roof, electric light, steam heat. Architect taking bids due February 8th. The following are figuring: W. J. Gruhler, 219 High street; Samuel Harting, 20 East Johnson street; W. C. Wright, 22 Harvey street; Paul E. Bertrand & Co., 717 Walnut street.

Residence (2), Powelton avenue and Preston street. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owner, B. W. Garrett, 4048 Powelton avenue. Brick, 2 stories, 16x45 feet, slag roof, electric lighting, steam heating. Plans completed. Owner will take bids in about one week.

Residence, Cynwyd, Pa. Architects, Weldon & Hall, 2000 Green street. Owner, G. Bromley Service, The Clinton, Philadelphia. Stone and frame, 3 stories, 35x70 feet, shingle and tin roof, oak floors (hot-water heat and electric light, reserved). Architects taking bids due February 4th. The following are figuring: J. P. Thompson, real Estate Trust Building; A. L. Fretz & Sons, 1222 Chancellor street; H. L. Brown, 1714

Sansom street; Charles Gilpin, Harrison Building.

Apartment House, Sixteenth and Tioga streets. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owners, Consolidated Construction Co., 5501 Baltimore avenue. Brick and terra cotta, fireproof, 3 stories, 80x270 feet, slag roof, electric light, hot-water heat, hardwood floors, metal lath, clothes' driers not decided. Owner taking sub-bids on all lines.

School, Forty-seventh and Locust streets. Architect, Horace Cook, Land Title Building. Owner, Board of Education, City Hall. Brick, stone and terra cotta, 3 stories and basement, 114x162 feet, slag roof, concrete and hollow tile fire-proofing, metal sash, damp-proofing (heat and light, from central plant, reserved). Owners taking bids (revised) due February 6th. The following are figuring: Cramp & Co., Denckla Building; J. W. Emery, 1524 Sansom street; E. Fonder, Land Title Building; P. J. Hurley, 1233 Cherry street; Charles McCaul Co., Tenth and Sansom street; David Peoples, Fidelity Building; Thomas Reilly, 1616 Thompson street; A. Bottoms' Sons Co., 41 South Fifteenth street; Mitchell Bros., 2125 Race street; Ketcham-McQuade Co., 1029 Brown street; H. H. Wehmeyer, 1004 West Lehigh avenue.

Church, Oakmont, Delaware County, Pa. Architects, Charles Bolton & Sons, Witherspoon Building. Owner, Oakmont Union Church. Stone, 1 story, 50x90 feet, slate roof. Architects taking bids due February 5th. Stacy Reeves & Sons, 2011 Market street, Philadelphia, are figuring, in addition to those previously reported.

Garage, Fifteenth and Mellon streets. Architect, George S. Idell, 34 South Sixteenth street. Owner, B. F. Dewees & Co., 1122 Chestnut street. Brick, 2 stories, 61x65 feet, slag roof, electric light, steam heat, gasoline storage. Plans in progress.

Factory, Seventeenth and Allegheny avenue. Architects, Stearns & Castor, Stephen Girard Building. Owners, A. Mecky Company, 1705 Allegheny avenue. Brick, five stories, 98x110 feet, slag roof. Architects taking bids due February 7th. The following are figuring: William R. Dougherty, 1610 Sansom street; H. E. Baton, Tenth and Sansom streets; J. R. Wiggins, Heed Building; Ketcham & McQuade, 1029 Brown street; A. Raymond Raff, 1635 Thompson street.

Church (alt. and add.), Oak Lane, Pa. Architects, Charles W. Bolton & Sons, Witherspoon Building. Owners, Oak Lane Presbyterian Church. Stone, one story, slate roof, electric lighting. Plans in progress.

Residence, Manoa, Pa. Architects, Charles Bolton & Sons, Witherspoon Building. Owner, G. J. Stanley, Manoa, Pa. Stone, two and

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Heaton & Wood **HARDWOOD FLOORS** 1802 Chestnut St., Phila.

one-half stories, 24x38 feet, slate roof. Plans in progress.

Store (alt. and add.), 2629-31 Kensington avenue. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Harry Rosenthal, on premises. Brick, three stories, consists of interior alteration and addition. Plans in progress. Bids in about two weeks.

Public Toilets, Thirteenth and Thompson streets. Architect, Ed. A. Crane, City Hall. Owners, Department of Public Safety, Bureau of City Property. Brick, one story, 20x50 feet, slate roof, electric lighting. Plans in progress.

Residence, Camp Hill, Pa., \$50,000. Architects, Stewardson & Page, 320 Walnut street. Owner, John R. Fell, Camp Hill, Pa. Stone, two and one-half stories, 150x30 feet. Plans in progress. Architects will take bids in about ten days.

Residence and Garage, Wawa, Pa., \$60,000. Architects, Stearns & Castor, Stephen Girard Building. Owner, Graham Wood, 2211 St. James Place. Stone, two and one-half stories, fireproof, power house will also be erected for electric lighting and steam heating. Plans in progress.

Residences (2), Latham Park, Pa. Architect, L. V. Boyd, Harrison Building. Owners, William L. Elkins Estate, Land Title Build-

ing. Stone and plaster, two and one-half stories, 25x51 feet and 56x50 feet, tile and slate roofs, hot water heating, electric lighting. Architect taking bids, due February 9th. The following are figuring: F. B. Davis, 35 South Seventeenth street; William R. Dougherty, 1610 Sansom street; A. Whitehead, 1624 Latimer street; Specht & Sperry, Heed Building; John Morrow, Oak Lane; McClintock & Weaver, 24 Phil Ellena street; W. John Stevens, Wyncote, Pa.

Factory, Second and Thompson streets. Architects, Peuckert & Wunder, 310 Chestnut street. Owner's name withheld. Brick and reinforced concrete, four stories, 42x115 feet, slag roof, steam heating, electric lighting, metal sash, two elevators. Plans completed. Architects will take bids in a few days.

Residence, Merion, Pa., \$10,000. Architect, Bart Tourison, Land Title Building. Owner, W. B. Tracy, Lafayette Building. Hollow tile and plaster, two and one-half stories, 28x44 feet, tile roof, electric lighting, hot air heating, hardwood floors. Revised plans in progress. Bids in about two weeks.

Residence, Devon, Pa. Architects, Brockie & Hastings, 1713 Sansom street. Owner, C. M. Lea, 706 Sansom street. Stone, three stories, 50x180 feet, slate roof, electric light, hot water heat, hardwood floors. Architects taking sub-bids on all lines, due February 14th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Spinning Shed, Marcus Hook, Pa. Architects, Ballinger & Perrot, 1211 Arch street. Owners, American Viscose Co., Marcus Hook, Pa. Brick and frame, 1 story, 132x200 feet, slag roof, electric lighting. Contract awarded to William Provost, Chester, Pa.

Residence and Garage, Merion, Pa. Architects, Druckenmiller & Williams, Land Title Building. Owner, Louis A. Belmont, Seventh and Market streets. Stone, 2½ stories, 33x73 feet, wing 22x50 feet, slag roof, electric lighting, hot-water heating, hardwood floors. Contract awarded to W. T. Lukens, Jenkintown, Pa., who is taking sub-bids, due February 9th. Plans may be seen at architect's office.

Residence (alt. and add.), Edgewater Park, N. J. Architects, Street & Stackhouse, Drexel Building. Owner, S. N. Neidich, Edgewater Park, N. J. Stone, 2 stories, 24x23 feet, shingle roof, electric lighting, steam heating. Contract awarded to G. D. Logan, Beverly, N. J.

Bakery, Newark, N. J. \$500,000. Architect, C. B. Comstock, 23 East Twenty-sixth street, New York City. Owner, Ward Baking Co., South Boulevard and St. Mary's street, New York City. Brick, steel and terra cotta, fireproof, 5 stories, 205x250 feet, slag roof. Contract awarded to Cramp & Co., Denekla Building, Philadelphia.

Factory Building, Twenty-fifth and Wharton streets. Architect, Alfred T. Green, Pa. Owners, Sherardizing Co., Real Estate Trust Building, Philadelphia. Brick, 1 story, 100x105 feet, slag roof (heat and light, reserved). Contract awarded to F. A. Havens & Co., 845 North Nineteenth street.

Store, Broad and Rockland streets. Architect, private plans. Owners, McCray & Hunter, 3525 Germantown avenue. Brick, 1 story, 20x115 feet, slag roof, electric light. Contract awarded to L. L. Loux, 1121 Rising Sun lane.

Hotel and Store, Seventy-third and Woodland avenue. Architect, H. M. Pedrick, Post Office Building, Darby. Owner, J. S. Kane,

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on premises. Brick and stone, three stories, 30x94 feet, slag roof, steam heat, electric light. Contract awarded to E. E. Hollenback, Fifteenth and Race streets.

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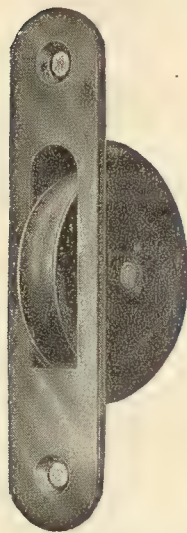
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J. Duncan (C), 920 Walnut street. Cost, \$22,000. Manufacturing Building, 20 to 24 South Fifth street.

M. G. Moore (O), 1630 North Sixteenth street. Charles Gilpin (C), Harrison Building. Cost, \$2,500. Garage, 1630 North Sixteenth street.

Morris Levy (O), 3830 Cambridge street. David Levy (C), 3830 Cambridge street. Cost, \$1,000. Store and residence, 806 South Fifth street.

L. J. Kolb (O), 38 South Eighteenth street. Mitchell Bros. (C), 2125 Race street. Cost, \$3,900. Store and dwelling, 809 North Broad street.

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

P. Abramowitz (O), 707 Snyder avenue. Cost, \$4,000. One dwelling, brick, 3 stories, 16x59 feet. 1925 South Seventh street.

Board of Education (O), City Hall. Charles McCaul Co. (C), Tenth and Sansom streets. Cost, \$36,774. School, brick, 2 stories, 100x129 feet, Forty-second and Ludlow streets.

R. M. Hunter (O), Real Estate Trust Building. Cost, \$10,000. Four dwellings, brick, 2 stories, 16x54 feet. Fifty-ninth street and Haddington avenue.

Herman Kister (O), 2762 Frankford avenue. Ed. Fay & Sons (C), 2 South Mole street. Cost, \$4,000. Manufacturing building, brick, 2 stories, 48x65 feet, 2756 Frankford avenue.

Philadelphia Rapid Transit Co. (O), 810 Dauphin street. Cost, \$400. Toilets, Fifty-eighth street and Woodland avenue.

G. W. Shissler (O), 2300 South Eleventh street. Cost, \$2,000. Store and dwelling, brick, 2 stories, 16x40 feet, Shunk and Percy streets. Cost, \$33,800. Twenty-six dwellings.

Mark Haller (O), 2123 South Fourth street. Cost, \$10,800. Six dwellings, brick, 15x26 feet, Mifflin street and Moyamensing avenue.

J. M. Holm (O), 5556 Arch street. Cost, \$200. Shop, brick, 2 stories, 30x85 feet, 811 South Sixth street.

N. Milgram (O), 1802 South Sixth street. Kravitz & Karasick (C), 735 Morris street. Cost, \$3,500. Store and dwelling, brick, 3 stories, 16x58 feet, Seventh and Pierce streets.

W. T. Clark (O), Thirtieth street and Columbia avenue. Cost, \$28,000. Fourteen dwellings, brick, 2 stories, 15x30 feet, Twenty-fourth and Cambria streets.

F. J. Donnelly (O), 4215 Germantown avenue. H. E. Sweger (C), 4435 North Uber street. Cost, \$5,300. Dwelling, brick, 3 stories, 16x20 feet, 4157 Germantown avenue.

Philip Cohen (O), 8416 Eastwick avenue. Cost, \$9,600. Six dwellings, brick, 2 stories, 16x37 feet. Eighty-fourth street and Eastwick avenue.

J. M. Thompson (O), Forty-fifth and Spruce streets. S. R. Edge (C), 5014 Willow avenue. Cost, \$4,000. Garage, brick, 2 stories, 35x35 feet, Forty-fifth and Pine streets.

G. Duff (O), 624 North Franklin street. Cost, \$1,500. Dwelling, brick, 2 stories, 16x29 feet. 621 Perth street.

G. W. Young (O), 2316 South Broad street. Cost, \$600. Store, brick, 1 story, 14x31 feet, Third street and Snyder avenue. Cost, \$8,400. Fourteen stores, brick, 1 story, 14x31 feet. Cost, \$600. Cost, \$600.

C. L. Duncan (O), Overbrook, Pa. H. E. Baton (C), Tenth and Sansom streets. Cost, \$16,000. Residence, brick, 3 stories, 56x54 feet, Overbrook, Pa.

M. H. Powers (O), Real Estate Trust Building. Heo. Hogg (C), 1634 Sansam street. Cost, \$10,000. Theatre, brick, 1 story, 32x113 feet, 412 Market street.

William O. Mahan (O), 4817 Old Yord road. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x52 feet, 1028-30 Rockland street.

Alterations and Additions

City of Philadelphia (O). Cramp & Co. (C), Denckla Building. Cost, \$1,000. Garage, Eleventh and Reed Street.

S. P. Hobson (O), 234 West Upsal street. F. Elvidge & Sons (C), 5522 Germantown avenue. Cost, \$1,000. Garage, 234 West Upsal street.

Breyer Ice Cream Co. (O), Ninth and Cumberland streets. Koelle, Speth & Co. (C), Twenty-sixth and Oxford streets. Cost, \$1,000. Factory, Ninth and Cumberland streets.

A. Schlesinger (O), 330 Wanut street. Lam Building Co. (C), 1001 Wood street. Cost, \$800. Store and dwelling, 6056 Market street.

S. Stamberger (O), 31 North Tenth street. H. Reusswick (C), 137 North Tenth street. Cost, \$1,000. Garage, 338 North Broad street.

A. Baldino (O), 762 South Ninth street. S. Cardone (C), 816 Kimball street. Cost, \$1,025. Dwelling, 1319 Passyunk avenue.

Friends' Asylum (O), Frankford, Pa. R. C. Ballinger Co. (C), 218 North Thirteenth street. Cost, \$3,000. Home, Frankford, Pa.

F. C. Koenig (O), 4918 Parkside avenue,

Cost, \$4,000. Dwelling, 4918 Parkside avenue.

P. E. Swartley (O), Fifty-eighth street and Haverford avenue. O. B. Carmean (C), 5131 Market street. Cost, \$1,000. Dwelling and store, Sixty-second and Pine streets.

Girard Avenue Theatre, 625 Girard avenue. H. W. Geshwind (C), Heed Building. Cost, \$575. Theatre, 625 Girard avenue.

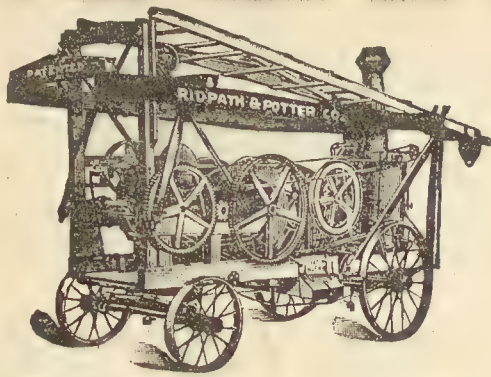
H. R. Rust (O), 724 Ludlow street. Cost, \$1,500. Store and office, 19 South Eighth street.

H. Publicker (O), Water street and Snyder avenue. F. A. Havens & Co. (C), 845 North Nineteenth street. Cost, \$2,500. Distilling building, Water street and Snyder avenue.

H. B. Rosengarten (O), 325 South Seventeenth street. A. MacTavish (C), 1515 Pine street. Cost, \$1,200. Dwelling, 318 Smedley street.

Cunningham Piano Co. (O), Eleventh and Chestnut streets. Basch & Co. (C), 1436 South Front street. Cost, \$1,000. Store, 1312 Chestnut street.

G. F. Nelson (O), 267 Sumac street. F. K.



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Stahl (C), 2713 North Park avenue. Cost, \$850. Dwelling, 267 Sumac street.

Charles Dumm (O), 3105 Diamond street. F. Coplan (C), 1628 South Eighth street. Cost, \$1,100. Dwelling, Twenty-sixth street and Columbia avenue.

Max Mosevitz (O), 2540 Kensington avenue. F. G. Myhlertz (C), 17v7 Filbert street. Cost, \$2,400. Store and dwelling.

Cost, \$2,800. Store and dwelling, 2636 Kensington avenue.

George W. Curran (O), Land Title Building. Gray & Dorner (C), 1729 Columbia avenue. Cost, \$1,000. Residence, Church road, Overbrook, Pa.

C. W. Soulas (O), 1337 Arch street. Philadelphia tSeam Heating Co. (C), 1319 Cherry street. Cost, \$900. Restaurant, 1337 Arch street.

NEW JERSEY Construction News

Hospital (alt.), Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Board of Freeholders, care of F. W. George, Court House, Camden, N. J. Consists of interior alterations, metal lath, electric lighting, kitchen equipment. Owners taking bids due February 9th. Lippincott & Co., Laurel Springs, N. J., is figuring.

Residences (12), Williamstown, N. J. Architect, private plans. Owner, Patrick Carroll, Thirteenth and Ritner streets, Philadelphia. Frame, 2½ stories, 16x34 feet each, shingle roof, hot-air heating. Owner ready for sub-bids.

Cement Sidewalks, Oaklyn, N. J. Engineer, J. C. Remington, 601 Market street, Camden, N. J. Owner, Borough of Oaklyn. Plans in progress.

Sewage Disposal Plant, Oaklyn, N. J. Engineer, J. C. Remington, 601 Market street, Camden, N. J. Owner, Borough of Oaklyn. Plans in progress.

Operation of Residences, Audubon, N. J. \$3,500 each. Architect, private plans. Owner, Joseph O'Hara, Collingswood, N. J. Frame, 2½ stories, shingle roof, hot-air heating, gas and electric lighting. Owners will soon take sub-bids.

Caddy House, Sumner, N. J. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Pine Valley Country Club, Sumner, N. J. Frame, 1 story, 30x40 feet, shingle roof. Architect has received bids.

Signal Tower, Hopewell, N. J. Architect, William Hunter, Twelfth and Market streets, Philadelphia. Owner, Philadelphia & eRad-ing R. R. Co., Twelfth and Market streets,

Philadelphia. Brick and plaster, 2½ stories, 15x36 feet, asbestos shingle roof, electric lighting, hot-air heating, expanded metal. Owners taking bids due February 5th. The following are figuring: Charles Gilpin, Harrison Building; A. L. Carhart, Hale Building; Brown-King Construction Co., Harrison Building; F. A. Havens Co., 845 North Nineteenth street; H. E. Baton, Tenth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; George Hogg, 1634 Sansom street; Burd P. Evans Co., Thirteenth and Wallace streets; J. Sims Wilson, 1125 Brown street, all of Philadelphia.

Theatre, North Clinton and Meade streets, Trenton, N. J. \$25,000. Architect, J. Osborne Hunt, 205 East Hanover street, Trenton, N. J. Owners, Hildinger, Bishop & Lamont, 118 Factory street, Trenton, N. J. Brick, 2 stories, 50x140 feet, slag roof, hollow tile, steel, electric lighting, steam heating. Architect will take bids in about one week. Plans in progress.

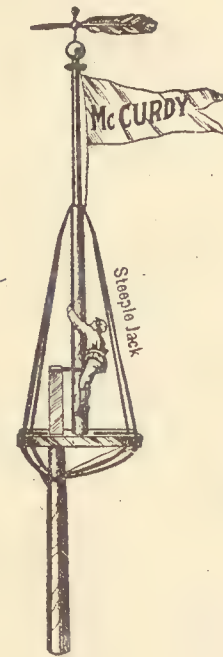
Residence (alt. to Apartment House), Trenton, N. J. \$6,000. Architect, W. Theines, Commonwealth Building, Trenton, N. J. Owner, name withheld. Brick, 3 stories, slag roof, steam heat, electric light. Plans about completed. Architect will soon take bids.

Home (add.), Clinton street, Trenton, N. J. \$5,000. Architect, J. O. Hunt, 206 East Hanover street, Trenton, N. J. Owner, Friends' Boarding Home, 56 North Clinton street, Trenton, N. J. Brick and stucco, 3 stories, 27x50 feet, slag roof, electric light, expansion to heating. Plans completed. Architects will take bids in two weeks.

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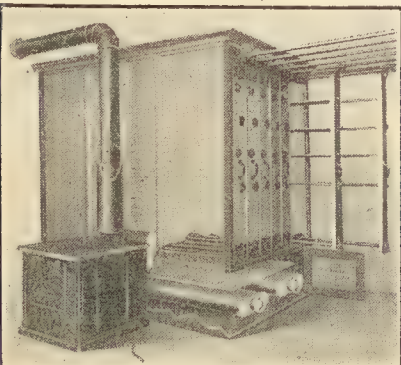
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School, Ewing Township, N. J. \$15,000. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Board of Education, care of F. C. Leaming (Sun Optical Co.), State and Warren streets, Trenton, N. J. Brick, 2 stories, slag roof, electric lighting, metal lath, (heating and ventilating separate contracts). Plans about completed. Owners will take bids in one week.

Fire House, Trenton, N. J. \$14,000. Architect, W. P. Enderbrock, American Mechanic Building, Trenton, N. J. Owner, City of Trenton, care of George B. LaBarre, City Hall. Brick and stone, 2 stories, slag and slate roof, steam heating, electric lighting, rolling doors. Plans completed. Owners about ready for bids.

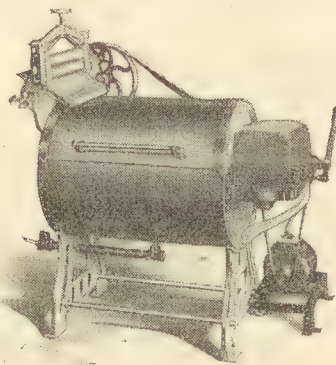


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Residence, Laurenceville Road, Trenton, N. J. \$12,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John L. Brock (Brock's Garage), Canal street, Trenton, N. J. Frame and stucco, 2½ stories, tile roof, metal lath, hot-water heating, electric lighting, hardwood floors. Architects ready for bids.

Factory (add.), North Muirhead avenue, Trenton, N. J. \$10,000. Architects, private plans. Owners, Luzerne Rubber Co., care of B. Bedford, on premises. Brick, slow burning construction, 2 stories, 38x84 feet, slat roof. Plans in progress. Owner will soon take bids.

Residence (alt. and add.), Haddonfield, N. J. Architect, Durham Bros., Heed Building. Owner, J. W. Powell, 74 Chestnut avenue, Haddonfield, N. J. Consists of new porch and bay windows. Owner taking bids.

Hospital, Millville, N. J. Architects, Guy King Co., 1513 Walnut street. Owners, Millville Hospital. Brick, 2 stories, 30x100 feet, semi-fireproof, electric light, steam heat, slate roof. Architect taking revised bids due February 6th. A. Whitehead, 1624 Latimer street, Philadelphia; H. W. Godfrey, Cape May Court House, N. J., are figuring.

Weather Bureau Station, Sandy Hook, N. J. Architect, Frank Upman, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and terra cotta, 2 stories, 36x41 feet, composition roof, electric light, hot-water heat, oak floors, weather strips, hollow tile partitions. Owners have received bids.

Library (rear add.), Trenton, N. J. \$50,000. Architect, Edward L. Tilton, 32 Broadway, New York City. Owner, Trenton Public Library, Trenton, N. J. Donor, John Lambert Cadwalader, New York City. Stone, 2 stories. Plans in progress.

Residences (20), Otterbury Tract, Trenton, N. J. \$3,000 each. Architect, R. A. Schumann, 932 Lambertson street. Owner, Walter & Updyke, Broad Station Building, Trenton, N. J. Brick and frame, 2½ stories, various sizes, hot-air heating, gas light, slate roof. Plans in progress. Owners will soon take sub-bids.

Church, Princeton, N. J. Architects, Cram & Ferguson, Boston, Mass. Owner, Trinity P. E. Church, care of Rev. O. B. Pomeroy, Princeton, N. J. Brick and concrete, fireproof, 2 stories and basement, 72x137 feet, electric light, steam heat, slag roof. Contract awarded to E. F. Miner Construction Co., Worcester, Mass.

Residence (alt. and add.), Edgewater Park, N. J. Architects, Street & Stackhouse, Drexel Building. Owners, S. N. Neidich, Edgewater Park, N. J. Stone, 2 stories, 24x23 feet, shingle roof, electric lighting, steam heating.

Residences (4), Trenton, N. J. Architects, American Mechanic Building, Trenton, N. J. Owner, W. C. Slack, 940 Parkside avenue, Trenton, N. J. Brick and frame, 2½ stories, slate roof, hot-air heating, electric lighting. Owners taking sub-bids.

Factory (add.), Salem, N. J. \$10,000. Architect, private plans. Owners, Salem Glass Works, Salem, N. J. Brick, 1 story, slag roof, electric light. Owners about ready for bids.

Residence, Ewing, N. J. Architect, Hill & Pettie, 40 East State street, Trenton, N. J.

Owner, Robert Anderson, Ewing, N. J. Frame, 2 ½ stories, 45x50 feet, shingle roof, hot-air heat, electric light. Architects taking bids due February 4th, 1914. The following are figuring: D. Tietz & Son, 16 Union street; S. Hilton, 126 Pennington avenue; I. Harper Clayton, American Mechanics Building; C. R. Randall, 43 North Hermitage street; E. D. La Rue, 52 South Hermitage street; William Ivins, 705 Monmouth avenue, of Trenton, N. J.

Chapel, Avalon, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street. Owner, St. John's by the Sea, P. E. Church. Frame and plaster, 1 story, 30x60 feet, shingle roof. Architect taking bids due February 10th. The following are figuring: G. B. Jefferys, Sea Isle City, N. J.; Peterson Construction Co., Clayton, N. J.; G. W. Kates, Avalon, N. J.; Levi Wentzel, Avalon, N. J.; Lehman Buzby, Millville, N. J.

Cottage, Vineland, N. J. \$9,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, New Jersey Training School for Girls, care of E. R. Johnston, Superintendent, Vineland, N. J. Brick and hollow tile, 2 stories, 42x58 feet, slag roof, steam heating, electric lighting. Plans in progress.

Office Building, 30 North Third street, Camden, N. J. Architects, Moffett & Stewart, Inc., Jessup Building, Camden, N. J. Owners, Moffett & Stewart, Inc., Jessup Building, Camden, N. J. Brick and hollow tile, 2 stories, 20x46 feet, slag roof, hot-water heat, electric lighting.

Custodian Building, Vineland, N. J. \$7,000. Architects, Moffett & Stewart, Inc., Jessup Building, Camden, N. J. Owner, New Jersey Training School, care of E. R. Johnston, Vineland, N. J. Brick and hollow tile, 1 story, slag roof, steam heat, electric lighting. Plans in progress.

Schools (4), Columbus Township, N. J. \$20,000. Architect, Clyde S. Adams, 1509 Arch street. Owners, Columbus Township Board of Education, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 70x110 feet; 1 story, 45x45 feet, 45x45 feet, 45x90 feet, slate roofs (heating and lighting, reserved). Owners taking bids due February 16th. The following are figuring: Berry-Goodwin, Drexel Building; R. M. Gould, Columbus, N. J.; Peterson Construction Co., Clayton, N. J.; Florence Construction Co., Florence, N. J.; E. M. Rowen, Moorestown, N. J., and E. Tourison, Mutual Life Building, Philadelphia.

Residence (75), East Side, Camden, N. J. \$2,000 each. Architect, private plans. Owners, Lorrigan & Hurley Co., Tenth and Vine streets, Camden, N. J. Brick, 2 stories, slag and tin roof, hot-air heating, gaslight. Owners will soon take sub-bids.

Nurses' Home, Atlantic City, N. J., \$20,000. Architect, Paul A. Davis, 1713 Sansom street. Owners, Atlantic City Hospital, Atlantic City, N. J. Brick, three stories, slag roof, steam heating, electric lighting. Plans in progress.

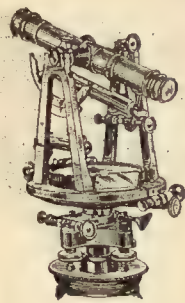
School, Elmer, N. J., \$20,000. Architect, Bart Tourison, Land Title Building, Owners, Board of Education, care of E. Bostwick, Elmer, N. J. Brick, two stories, 51x80 feet. Plans in progress.

Residence, Riverton, N. J., \$25,000. Archi-

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fects, Simon & Bassett, 1114 Chestnut street. Owner's name withheld. Brick, two and one-half stories, 33x80 feet, slate roof, electric lighting, hardwood floors, hot water heating. Plans in progress.

Apartment House, Atlantic City, N. J. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner's name withheld. Brick and terra cotta, five stories, 120x125 feet, slag roof, electric lighting, steam heating. Plans in progress.

Residence, Riverside, N. J., \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, William N. Miller, Riverside, N. J.

Frame, two and one-half stories, 31x32 feet, asbestos shingle roof, hot water heating, electric lighting. Architect taking bids, due February 7th. Alex. Bright, Riverside, N. J., is figuring, in addition to those previously reported.

Residence, Riverside, N. J., \$4,200. Architect, Herbert O. Zeigler, Riverside, N. J. Owner, George N. Miller, Riverside, N. J. Frame, two and one-half stories, 30x30 feet, asbestos shingle roof, hot water heating. Architect taking bids, due February 7th. Alex. Bright, Riverside, N. J., is figuring, in addition to those previously reported.

THE "KITCHEN BEAUTIFUL"

Very few of us associate the idea of beauty with the kitchen. Some of us, it is to be feared, regard the kitchen merely as a necessary evil never to be mentioned or thought of when mention or thought of it can be avoided. To most of us—wrong as this is, we cannot deny it—the word kitchen means only that room in the house where three times a day food is prepared for the table, at which, however, we are glad enough to gather to do justice to the old saying, "Eat to live or live to eat."

Whether it be the former or latter, the enjoyment of our food is built on a necessary foundation, and that foundation is a good kitchen. Surely, when the kitchen is responsible for so much that goes to make up the pleasure of our lives, it is worthy of some appreciable degree of respect and consideration; and surely, too, the cook who spends most of her time there ought to be thought of, and if any feeling of gratitude exists for the toothsome viands she prepares, we are bound to make her surroundings as agreeable as we can.

The kitchen, as a rule, is given only a certain amount of reluctant consideration, because it offers little possibility for carrying out decorative schemes and because to most housewives it is merely a workroom where practicality and artistic treatment must not be combined whether it be possible or not. The kitchen, according to their thinking, is only a place of preparation whence finished culinary achievements are sent forth to be enjoyed amid surroundings more conducive to pleasure.

There are, however, certain elements of beauty that enter into, or ought to enter into,

the make-up of every well constituted kitchen quite independently of whether it is fully equipped with all the latest appliances or whether it boasts only the most modest outfit. The first and foremost of these elements is the quality or order and neatness to which anyone can attain whatever their circumstances. However, before dilating upon the decorative side of the question let us glance at the physical requirements of a conveniently arranged kitchen.

To begin with, it will have places to accommodate all the necessary cooking utensils. Some will be kept in shelves, some in cupboards and some for ready use on table and sink boards or racks where the cook, like a surgeon, can put her hand on the desired article without causing delay, for delay often spoils a pudding. To be sure, the kitchen has several pantries or large closets as overflows, but the general supply of cooking implements and accessories is right in the room where 'necessity is' not always "the mother of invention."

A kitchen should always be airy and well lighted, the first to ensure proper ventilation and dryness and the second to increase efficiency. In other words, the requirements of perfect sanitation and maximum convenience must be strictly observed. When tiled walls and ceilings are possible, labor will be reduced to an appreciable degree. If tiling is out of the question, then the walls and ceiling should be painted and highly varnished, and thus practically the same results may be obtained at much less expense. The floors should be tiled, made of hard wood or covered with a fine grade of plain or inlaid linoleum. The linoleum is the least expensive

and the results are usually quite satisfactory.

The sink where pots and pans and other blackened utensils are washed is best made of soapstone rimmed with a rubber braid to prevent unnecessary breaking of both utensils and sink edge. The sink where the enameled ware and other finer dishes are washed that are not taken care of in the butler's pantry, should be made of white ware, and, like the other sink, should have a rubber edge protector. Open plumbing, like that in the bath room, is necessary.

The stove or range should be of the newest model; if not, an old one kept in good repair, well blackened and free from the spills of cooking. A large hood should hang over the range and gas stove to carry off all odors. Electric light in abundance is desirable, also gas in case of accident, that, as one knows, too often happens.

It is advisable, where possible, to have a small room adjoining devoted to the making of bread and pastry, whose preparation may be carried on free from greasy odors that too frequently infest the main kitchen while meals are being cooked. The doors of a kitchen are best of the swinging or push type, as they are easily opened from both sides by the slightest push, and when a dish is hastily rushed to or from the oven this means of exit is a great convenience to the cook and facilitates the arrival of the food in steaming hot and fresh condition. Between the kitchen and the rest of the house two doors should act as an odor preventive, and, if possible, the little passageway between should have a window for ventilation or a ventilator in the ceiling.

Adjoining the kitchen should be a small closet-like room fitted up for the care of the cutlery with cleaning stone, emery powder for the kitchen knives and forks and scouring accessories for the pots and pans. Here also the oil is kept and the lamps are cared for.

So much, then, for the architectural or physical desiderata of the ideally equipped kitchen. Now for its aesthetic or decorative aspects. We have said that the first element of beauty in a kitchen is its perfect combination of order, neatness and scrupulous cleanliness. Closets should be few, save for the protection of perishable articles and such things as lose strength by exposure. The pots and pans and kettles should be kept in the open and exposed to full view, hung on hooks or ranged on shelves. This bit of advice will doubtless be disapproved by some readers, but there are two sound reasons for giving it, reasons both practical and decorative.

In the first place, if the "cooking paraphernalia" as hung on hooks, whoever is charged with keeping them in order is obliged to have them always well scoured and ready for the inspection that a careful and prudent housewife is liable to make at any moment. In other words, closets and cupboards for the heavier cooking utensils only encourage carelessness in cleaning, as what is out of sight is too often out of mind, and so they escape

the rigors of close, searching observation. In the second place, there is nothing more pleasing than to enter an orderly, neatly disposed kitchen and see all the copper and brass highly polished and the other pots and pans brightly scoured and carefully hung on hooks. Such a sight is an outward and visible sign of a well-ordered mind desirous of doing well with whatever comes its way.

In a kitchen, of all places, be sure to have a place for every single thing, and also be sure to keep that thing in its own appointed place, and daily toil and trouble will boil down to accord and contentment. Too often in planning our houses the kitchen is a wholly secondary consideration upon which little thought is bestowed save to provide that its mechanical workings shall be capable of satisfying the wants of the inner man.

A kitchen can and should be included in the general artistic treatment of a home. Be there small means or gerat behind the desire to beautify the kitchen, either an attempted new trial or a renovation will fully justify careful planning and thought; and, after all, how very insistently true is that old saying that "what is worth doing at all is worth doing well."

In olden days, when our grandmothers and grandfathers kept house, the kitchen was a room where hospitality mingled with the luxury of cooking, and pride of good order was manifest in all things from the polished pots and pans to the sand-rubbed floors and boards, a necessity then, but no more so than to-day when the thousand and one calls upon a kitchen demand even more care and thought than in long bygone times. In those days "necessity was truly the mother of invention," but to-day the mother of invention is a demanded necessity.

How easy it is to brighten up various rooms in our homes, where one lives and naturally demands a cheerful surrounding. One does it as a matter of course and accepts the result as the only befitting sign of comfort; and yet, when the kitchen is to be considered, the words "necessity" and "result" are alone taken into account. Make the kitchen a bit of culinary interior decoration and give it the consideration due its station in the home's make-up.

The kitchens of Holland are examples of what thrift combined with the care of things will result in. In these rooms set aside for the preparation of food the decorative value and demands have made them not "only work rooms," but bright and cheerful spots; and if one believes that brightness should be present at all meals, why not say that in the making of meals this note should also exist?

The windows of a kitchen should be treated according to their location in the house. If they look into a neighbor's windows, watered or ground glass may be used, thus cutting off any view that one might find not quite pleasant, and at the same time such glazing would admit sufficient light. Should the windows look out upon a street, then curtain them with scrim drawn over rods at top and bottom. This will permit the opening of the

window without having the curtains blowing back and forth, and probably getting in the way both of the cook and the cooked.

The selection of a color scheme for the kitchen depends largely upon the light and largely upon the ability of one's servants to keep the place thoroughly neat and clean. A kitchen might be done all in white enamel, walls, ceiling and woodwork—with a red tile floor. The all-white kitchen, however, while extremely pleasing and suggestive at once of the very acme of neatness and cleanliness, is a dreadful "telltale" upon dirty fingers, and its snowy purity is maintained only at the expense of many weary hours, several times a week, of hard and conscientious cleaning.

A kitchen might also be done in gray with natural woodwork-rubbed down and stained a pleasant brown. This with a hardwood floor. The gray kitchen is less difficult to maintain in an immaculate state, but it, too, must have its share of twice-a-week cleaning. After all, no matter what the color scheme of one's kitchen may be, cleanliness, absolute cleanliness, is the one hard and fast requirement that must be stamped indelibly on the pages of the domestic rule book and referred to every moment, "lest one forgets."

Other color schemes than white or gray may readily be evolved, according to the preference of personal taste or the exigencies of light and exposure. In some places it is possible to have the kitchen wing so arranged that there are no rooms in the upper part. In such cases it is often desirable from a purely practical as well as from a decorative point of view to have a high, open timber roof. The added height aids ventilation and the effect of the exposed rafter, posts and struts is exceedingly picturesque.

Taking the cue from old Dutch and German kitchens, it is worth while from the decorative point of view to have shelves so that the platters and plates kept in the kitchen may be ranged upon them in due order. A word here about these same platters and plates: It is worth while to have them of decorative colors and patterns. Such ware can always be obtained at an exceedingly reasonable price. These, then, with the bright glimmer of well-polished copper pots and pans, impart a homely charm that cannot fail to commend itself to both mistress and maid.

As a last touch keep your coffee, salt, tea and such things in some of the boxes or canisters decorated in the Bavarian peasant style. Their note of color and design will be a valuable addition to the tout ensemble.

The great difficulty is to keep up the standard that one has set by having a "kitchen beautiful." The moment the works therein fail to carry out the spirit of the thing the kitchen becomes dull and commonplace and once more descends to its old position as a commonplace room. The kitchens of provincial France often bear testimony to the scrupulous care of utensils in pretentious receptacles, or in symmetrical arrangements on wall or shelves, while an almost arsenal air of discipline is borne by the cuisiniere while knitting as the oven heats.—George Crane in "American Homes and Gardens."

A STANDARD BUILDING.

The General Particulars to Which It Should Conform.

The Committee on Fireproof Construction of the National Fire Prevention Association in a report defined a "standard building" as one in which the lives of the occupants are properly safeguarded against fire and panic; one so designed and equipped that damage resulting from exposure to fire from either from within or without shall be reduced to a minimum, and one capable of sustaining a complete burn-out of its contents without serious injury to its structural members.

The specifications for the construction of a standard building are given in the report, the principal ones being these:

Height.—The height from grade to roof-line, irrespective of its occupancy, shall not exceed 70 feet, unless the building be fully equipped with automatic sprinklers, in which case the height shall not exceed 125 feet; nor shall any Standard Building exceed a height of two and one-half times the width of the widest street upon which it is located.

Area.—The area within inclosing or fire walls shall not exceed 7,500 square feet, with no dimension greater than 125 feet for a building without automatic sprinklers; or 20,000 square feet, unrestricted as to linear dimensions, for a building fully equipped with automatic sprinklers.

Exits.—Wherever the word "Exit" is used in these specifications it shall be one of the two following forms:

(1) Stair Exit. That consists of the direct connection of any floor area to an approved stairway built in conformity with the specifications hereafter detailed, either as (a) an enclosed interior stairway, or (b) a smoke-proof tower. (2) Horizontal Exit: The connection of any floor area through a fire exit partition, fire wall, or an open air balcony or vestibule to another floor area in the same or an adjoining building having its own independent stair exits; the other area shall be of sufficient size to contain temporarily the joint occupancy of the two areas thus joined, allowing not less than 5 square feet of unobstructed floor space per person.

Number of Exits Required.—Every floor area, except the ground floor, shall have at least one stair exit directly connected thereto. Every such floor area shall have at least one additional exit when it exceeds 2,500 square feet in area, or when the building has a total occupancy greater than 75 people above the ground floor. Every ground floor area of more than 4,000 square feet, or having an occupancy of more than 75, shall have at least two means of exit. Where more than one exit is required to any floor area they shall be remote from each other. In all buildings, every room having an occupancy greater than 75 shall have at least two doorways leading to exits.

No part of any floor area shall be more than 100 feet distant from the entrance to an exit. Whenever any building is more than four stories high, and has an occupancy greater than twenty-five people above the

fourth floor, then each floor area of such building shall be connected, either directly to a smokeproof tower, or indirectly through a horizontal exit to such smokeproof tower. Wherever any floor area exceeds 5,000 square feet, at least one additional means of exit shall be provided for each additional 5,000 square feet or part thereof.

THIS WAS A SUCCESSFUL ARCHITECTURAL COMPETITION.

Architects all over the country have manifested keen interest in following the erection of the municipal group at Springfield, Mass., because the plans for the \$1,900,000 project were accepted by competition according to the rules of the American Institute of Architects. The designers, Messrs. Pell and Corbett, of New York, were selected by a commission of which Prof. Warren P. Laird, of the University of Pennsylvania, was the architectural adviser. The group of buildings, consisting of an auditorium with a seating capacity of 4,000, the campanile with a chime of twelve bells, and the administration building, was formally dedicated last month, and among those who participated in the exercises was Mr. F. Livingston Pell, of New York, one of the architects of the group. He said in substance:

"It is not often in the career of an architect that he is given the opportunity of designing such buildings as we are dedicating to-night. The object of the architect, it is often said, is to get the job. We like, however, to accept a higher standard, that set by Prof. Ware, of Columbia, namely, to build beautiful buildings. Few of you realize the amount of work and minute attention that is involved in the evolution from the plan to completion of buildings of the character of this municipal group. If you knew of the care we take in our work you would understand why it is that the erection of a building like this means to us almost as much as the development of a child whom you have brought into the world and educated would mean to you.

"It is rarely that we have the opportunity of working in a town where the taste and appreciation of architecture is as high as it is in Springfield, so that we are permitted to do good work. In this respect you are co-architects with us. As a result of our work together you have a home for your municipal government that is not equaled in New England.

"You know the history of these buildings in the course of their construction. At first they were referred to as 'Mr. Pratt's twins,' and the tower as a nursing bottle placed at a sufficient distance from each one. I assure you that the architects and the building commission had no race suicide idea in mind when they planned the group.

"Doubt was expressed as to the necessity of a municipal auditorium. Probably the same doubt was expressed by your forefathers as to the advisability of having a town hall. The auditorium has proved its usefulness already. In the short time since last

spring that it has been completed, it has been in almost constant use, and had a reasonable rental been charged for it the building would have proved a commercial success. One of the largest taxpayers in this city said to me today: 'I can calculate to within a few dollars the share I have paid toward the erection of the Campanile, but when I see the sunlight and clouds upon it late in the afternoon, I feel that I am repaid for all it has cost me as a citizen of Springfield.'"

PERSONAL NEWS NOTE.

J. B. MacKenzie, who has been in charge of the Western advertising department of the Lehigh Portland Cement Company at Chicago, has assumed his new duties in the advertising department at the main office of the Lehigh Company, in Allentown, Pa.

HEIGHT LIMIT OF CONCRETE BUILDINGS.

A writer in "St. Nicholas," a famous old juvenile monthly, recently used some interesting illustrations in telling young America about the possibilities of reinforced concrete as applied to skyscrapers.

His story is as follows:

"Aren't you ever going to reach the height limit of these tall buildings? (asked one of the boys). I should think they would soon be too heavy for their foundations."

"Not at all; not at all," said Mr. Hotchkiss, looking around for an illustration. Then he fumbled in his pockets and pulled out a small bolt. Unscrewing the nut, he measured it, and found that it was a scant inch square.

"That's less than one square inch, eh?"

We nodded assent. Then he placed the nut on the ground and stood on it. "There, now I am subjecting the ground to a greater strain than is this whole building."

We looked at him incredulously. "Yes, I weigh 210 pounds. Two hundred and ten pounds on one square inch makes how much per square foot? Reckon it up."

Will had his notebook and pencil out in a jiffy, and started figuring. "Fifteen tons per square foot," he announced presently.

"That's it. The building regulations of this city do not allow a weight of more than fifteen tons per square foot on the foundations. A foolish regulation, in my estimation, because on the idea that concrete would crush under a heavier load than that; but the kind of concrete we have nowadays, thoroughly reinforced with steel, will stand a far greater pressure. You can see for yourselves how ridiculously light the load is when you figure it down to square inches. Why, many a fat woman who picks her way across a muddy street on her French heels, exceeds the limit of the building code for pressure on the earth."

"But I can't believe," I protested, "that a big building like this puts a strain of only 210 pounds on the ground. Do you mean to say that if you cut a sliver out of this wall from top to bottom and only an inch thick by

one inch wide it would not weigh more than 210 pounds?"

"Well, not exactly that. If your sliver were cut out of one of the steel columns, it would weigh six or seven times as much as that, and if it were cut out of the elevator shaft, it would be as light as air. You must remember that very little of this building is solid all the way up. At the bottom of the columns there is a footpiece that spreads the weight over a large area of concrete. There are 69 concrete piers under this building. It is a regular centipede, with concrete legs all over that stand on rock 120 feet below the sidewalk. Some of those legs are twenty feet in diameter. You will find that there are quite a few square inches in the foundation supports of this building.

"Altogether the finished structure is going to weigh something like 100,000 tons, with an allowance of 20,000 more for wind-pressure. This isn't very much when you consider the size of the building. If you could throw the finished building into the ocean, it would float, provided the doors and windows did not leak, and, what is more, fully five-sixths of the building would project out of the water.

"Oh, we haven't reached the height limit by any means. Somebody has figured out just how tall a building could be erected on a point 200 feet square without violating the building code. He estimated that the building would be 150 stories high, reaching 2,000 feet in the air; and it would weigh 516,500 tons. It would cost \$60,000,000, and it would be required to stand a wind pressure of 6,000 tons. As a matter of fact, it would take something like 50,000 tons of wind pressure to upset the structure.

"Of course, a building like this would not stand on concrete legs, but would have a single solid foundation pier 200 feet square, running down to bed-rock. If the steel work could be erected directly on the rock without any concrete between, no doubt permission could be obtained to add a few more stories on top."

CASS GILBERT'S LATEST BUILDING.

Detroit's new \$1,000,000 library will be constructed from a design submitted to the Public Library Commission by Cass Gilbert, of New York City, whose plan recently was adjudged by a jury of experts to be the best of six plans submitted by architects of New York and Detroit. Fireproof construction will prevail throughout, and the exterior will be executed in cut stone work. Interior arrangements are designed along the simplest possible lines, and there will be ample aisles and a great array of modern conveniences. Simple classical lines will predominate in the new structure, which is to comprise two stories and a mezzanine floor. The approximate bulk of the building will be 1,700,000 cubic feet. Capacity for 500,000 volumes will be contained in the stack room, which is to be well lighted by natural light. Mr. Gilbert will receive six per cent. of the \$1,000,000 appropriation for the library.

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Editorial Comment

A Chicago firm of monument and mausoleum makers, Charles G. Blake & Company, is offering \$200.00 in prizes for monument designs apportioned as follows: \$125.00 first, \$50.00 second and \$25.00 third prize. Designs are to be judged by three judges, to be appointed by Charles L. Hutchinson, President of the Chicago Art Institute, two of whom shall be members of the Municipal Art League of Chicago. The competition, intended to arouse the interest of architectural students and young architects generally, in the work of monument design, is governed by these conditions:

- A. All designs shall be drawn in ink on Bristol board, one inch to the foot, and shall consist at least of front elevation, end elevation and ground plan. Perspective not necessary unless designer wishes.
- B. Monument not to cover over 100 square feet of ground, for it must be borne in mind that it is for an ordinary cemetery lot.
- C. Should not contain over 600 nor under 200 cubic feet, above ground.
- D. Do not show any curbing around lot.
- E. Design may be purely architectural, with or without architectural carving, or may have sculptured bas-relief as part of the composition. If sculpture is used, suggest "Hope" or "Memory" rather than "Grief." Material, fine-grained granite.
- F. Monument to set toward rear of lot with shrubbery across the rear of lot and down part way on the sides.
- G. An oblong form usually fits such lots best, but not necessarily.
- H. All designs to be sent carriage paid to Charles G. Blake & Co., 721, 108 South La Salle street, Chicago, marked on the outside "Memorial Competition," and enclosed must be a sealed envelope with a nom de plume thereon, corresponding with the one on the design. The name and address of the designer shall be in the envelope, and the design must not show the name of the designer or have any identifying marks other than the nom de plume. After the awards have been made, the sealed envelopes will be opened and prizes forwarded.
- I. Any design may be reproduced by Chas. G. Blake & Co.
- J. No prize will be awarded a design unless the committee shall consider it of artistic merit.
- K. Designs must be in not later than March 15, 1914.
- L. "Let simplicity rule." Remember it is a monument to mark a family lot, not a monument to an individual.
- M. Let every designer receiving this submit a thoughtful design, simple as the

subject is, and so help on the movement toward artistic productions.

* * *

One of the weaknesses that discloses itself upon the most casual examination of this schedule of conditions is to be found in item I, which sets forth "Any design may be reproduced by Charles G. Blake & Co." Does this mean any one of the prize-winning designs or any of the designs submitted? If the correct interpretation is the latter what remuneration, if any, is to be made to the draughtsman submitting the design so reproduced? No mention is made in the circular before us regarding any arrangement for the return of designs not included in the final award? What disposition is to be made of these? Are they to be reproduced at will by Charles G. Blake & Co. without pecuniary benefit to the authors, or is a special understanding implied to buy designs which while unsuccessful in the general competition shall be deemed of sufficient merit to reproduce? If such an understanding is meant to be implied why is it not made plain in the announcement of the competition.

* * *

That most of the mortuary designing is of a hideous and depressing order of ugliness we are more than ready to concede. How could it be otherwise? This work duplicated over and over again by "designers" half educated, uninspired and hopelessly mechanical, has only in rare instances claimed the attention of men trained in the arts. The bereaved head of the average family orders a monument much as he would order a suit of clothing, a new hat or an automobile. He looks over the stock of the gravestone merchant, picks out something—if he has the faintest pretensions to taste—a trifle less hideous than the general run and orders it "duplicated."

The result is that the average cemetery resembles the average stoneyard—a conglomeration of more or less uninspired reproductions of the same depressing, inartistic and uninspired schemes of design. We have often felt how much more satisfying the result would be both in beauty and in consolatory qualities if the man seeking a mortuary monument, and able to pay for it, would call in an architect or a sculptor, or both, and have the thing done so that it would mark an intelligent expression of grief, or resignation, or faith, or aspiration, or any of the various other sentiments sought to be conveyed rather than the parrot-like mockery of stereotyped monument-making. The Blake announcement is at least a step in the right direction. Here's hoping it may be successful. Heaven knows the merest tyro in design should be able to improve on the effigies in stone in which the average cemetery abounds!

While we are on the subject of prize announcements let us make a note, in passing, of the "American Homes and Gardens" contest for a small house. One hundred dollars is the prize in this instance, to be awarded under the following conditions:

1. The design and plans must be original with the architect submitting them.
2. The construction of the projected house must not exceed \$5,000, including heating and plumbing. The elevation may be either photographs of houses already built or wash drawings of projected houses suitable for half-tone reproduction.
3. The plans must be line drawings in black and white. Blue prints will not be considered.
4. The publishers of "American Homes and Gardens" will not be responsible for any of the photographs, drawings and plans submitted, but will endeavor to return all such to the contestants, if requested to do so. Postage for return should be prepaid, otherwise any photographs sent will be shipped by express, charges collect.
5. All designs and plans must be sent before March 15, 1914, prepaid, addressed to The Editor, Architectural Contest, American Homes and Gardens, 361 Broadway, New York, N. Y.
6. The plans must not be marked with the architect's name, but with an identification name instead, the key to which should accompany the plans, photographs and designs in a sealed envelope.

"American Homes and Gardens" will publish the successful design and the honorable mention designs and plans in its Small House Number, May, 1914. A committee of well-known architects will pass upon the merits of the designs and plans submitted. The names of the members of this committee will be announced later.

* * *

Despite an increase in the cost of the dwelling operations begun last month, construction work undertaken in this city during January shows a falling off. The figures compiled at the close of business by William W. Gamble, statistician of the Bureau of Buildings Inspection are as follows: Permits, 595; operations, 865, and estimated cost \$1,247,985. This is the lowest total for January for many years. In 1913 the expenditure was \$1,456,740 and in 1912 the estimated cost was \$1,250,220. In December, 1913, 664 permits were granted for 951 operations, costing \$1,445,435.

Compared with the dwelling figures for January, 1913, when 133 operations cost \$495,700, the corresponding month of the current year shows a gain in this class of work, both in number and cost. Ground was broken in January for 283 dwelling operations, involving a total outlay of \$522,850.

The slump in the grand total may be ascribed to the manufactories. Last month permits were issued for the erection of four

buildings of this character costing \$28,500, as against seven factories costing \$244,000 in January, 1913.

BUSINESS CORRESPONDENCE.

Has it ever occurred to you the exact value correspondence has in the maintenance of successful business? Not just the ordinary circular kind or a mere printed-form letter, but the real daily matter that calls for a reply or an answer to some inquiry. If you have not, you should consider all the valuable features business letters have in conducting a business.

First, last, and forever, a neatly written letter on a good printed letter-head is one of the biggest advertising assets a house can make. There are hundreds of big corporations to-day who in addition to their advertising department employ correspondence clerks just for that reason—advertising. A letter will come in that bears no real significance at the moment, but it is passed up to the correspondence clerk, who tries to answer it in a manner suitable to the inquirer.

This is done so that there is positively no opportunity of a person being slighted by the company, and to show an appreciation toward the good will of all. This method has often proved a real asset in business. An occasion to prove this, some time ago, came to the writer's notice. A correspondence clerk who, along with his stenographer's salary, did not exceed fifty dollars per week, was handed a letter of inquiry to answer with the memo attached, "Use your judgment." The letter wanted to know this and that about the firm's machines. As there could be no rating secured on the writer, and coming from a small out-of-way place up in the country, there was little attention paid to it, but the correspondence clerk wrote him, and several more letters had passed between them, when an order for ten thousand dollars' worth of machinery was placed with satisfactory references. Here was a case of an unexpected sale, and had it been left to any one else, there would have been absolutely no attention paid to the first letter. Thus a sale would have been lost.

There are many firms who are brief and sharp in their correspondence, and many more who fail to answer letters when they do not see a profit in so doing. This seems a very bad method to pursue in any business. **If a person sees fit to waste two cents in making a request by mail, the good will of that person is worth two cents to any firm to answer.** While he may never have an opportunity of being a direct purchaser, the very fact he wrote you and you answered him as per request places that person somewhat obligated to you, and if the occasion ever permits, he will buy or cause to have some purchase made in your line. Thus you can never tell who is a buyer until he is sold, but bear in mind at all times, "one good turn deserves another." Polite and intelligent correspondence is profitable no matter how much it costs.—"The Founder of Business."

Advertising owns many points of resemblance to the reinforcing used in concrete. To do its work properly, for example, it has to be the right kind. And then if it isn't placed with good judgment it fails just the same. And if the "mix" isn't right—that is the goods it is used to hold up,—it loses out anyway. So that when you come to look at it from the right angle, Mr. Advertiser, making advertising pay dividends is a whole lot like building in concrete—a good thing when the man who's handling it knows his business.

BEAUTY IN DECORATION.

It is to be wished that every householder could be induced to read and re-read and read again Emerson's essay on Beauty. If the essay is full of the sublimities it is no less full of practicalities and might well serve us as a primer. Not, it needs hardly be said, to the delight of the professional interior upholsterer; because, forsooth, if its precepts were followed out the taste for eternal change in our furnishings would lose its keenness and there would be nothing to keep his trade brisk. Which raises the question: Does the householder exist for the tradesman, or vice versa. As a matter of fact we are painfully slow in getting out our emancipation papers from the fringemaker and the upholsterer. Nevertheless, slowly but surely, we are getting free of the old ideals of magnificence and coming into a realization of the greater glories of simplicity and fitness to purpose.

To prove it, we have only to pay a visit to some such palace as Fontainebleau, or notably Versailles, and discover how their grandiloquence bores us. After having been well nigh snowed under by their array of costly trivialities we turn back for refreshment to our text. We understand better what Emerson was driving at when he advised us to use "geometry instead of expense,"—when he prophesied that it would be possible to build "a plain cottage with such symmetry as to make all the fine palaces look cheap and vulgar,"—when he declared a man might, if he were great enough, "cause the sun and moon to seem only the decorations of his estate."

We realize why he quoted from Michel Angelo "Beauty rests on necessities. The line of beauty is the result of perfect economy * * * 'It is the purgation of superfluities.'"

For certainly the old ideals of furnishing had an effect of holding us down to trivialities. No wonder that in our cages, albeit so artfully constructed, we grew restless, morbid, self-centered. Strange how few had the courage of their convictions to cry out against the bondage,—to strike for freedom as did Mrs. Rossetti, or to proclaim as did Richard Jefferies against the pettiness of "house-life" with its chairs, its tables and the like. To-day we have outgrown at least our lethargy. We dare to think and to discuss, dare even to lift up a standard.

"The lesson taught by the study of Greek

A large number of people have taken advantage of our offer to finance the electric wiring of their homes on the installment plan. Many hundreds more would do it if they fully realized the fact that wiring a house is accomplished with so little noise, dirt and inconvenience, that you are not deprived of the use of any of your apartments for even a single day.

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and of Gothic art, of antique and of Pre-Raphaelite painting, was worth all the research,—namely, that all beauty must be organic; that outside embellishment is deformity. * * * The new virtue which constitutes a thing beautiful is a certain cosmical quality, or a power to suggest relation to the whole world, and so lift the object out of a pitiful individuality.”—“The House Beautiful.”

PULSE OF A SKYSCRAPER.

By day or night a modern city is never wholly at rest. A hundred disturbing factors are constantly setting up curious vibrations which travel in every direction. The tracing out of these vibrations and their accurate measurement is a new problem among builders which has a peculiar interest for the layman as well. This problem of feeling the pulse of buildings is not limited to great cities, but often arises in comparatively small towns throughout the country. Let a train rush past the foundations of a high building, or even a low one, or a powerful wind-storm beat against its walls, and the entire structure may vibrate like a giant tuning fork. Incidentally, the problem is so well understood that accidents from excessive vibration are practically unheard of. The cradle may rock, but it never falls.

The measurement of the pulse-like vibrations is made much the same as that of an earthquake, and almost as accurately. The marvelously delicate instruments which are depended upon for these records trace curious pulsing lines, which show at a glance just how wide an arc the building swings through, and how regular is the recurrence of the movement. These readings are accepted in court as absolutely conclusive, and it is not uncommon for damage suits involving im-

mense sums of money to be decided by these delicate tracings.

Public opinion is all wrong, or nearly so, as to the amplitude of the vibrations of buildings both large and small. Everyone has felt such vibrations, but one's sensations are apt to be very misleading. It is a surprise to many that the most violent vibrations are not felt in the extremely high buildings, as is commonly supposed, but in the comparatively low office buildings, and as a rule those of solid construction. A vibration of three-sixteenths of an inch is extremely violent, for a movement of one-hundredth of an inch is readily noticeable. As the records show, there is a peculiar method of rhythm in these movements, the building swaying back and forth through a given arc with the regularity of a pendulum.

BILLION DOLLARS FOR BUILDING.

In 1912, according to figures gathered by the United States Geological Survey, 143 of the cities of the country having a population of 35,000 or more spent \$919,809,054 in building operations. The greatest amount was spent by New York City—\$163,519,362; Chicago came second, with \$83,175,900; Brooklyn third, \$40,537,784; Philadelphia fourth, \$36,392,405; and Los Angeles fifth, \$31,367,995. Twenty cities expended \$10,000,000 or more in 1912 in new buildings, additions or repairs. In 48 of the leading cities the greatest gain was in New York City, \$27,815,647, and Los Angeles, Cal., second, \$8,363,810.

Of the 143 cities reporting to the Geological Survey, 105 were able to furnish sufficient detail to enable the segregation of the statistics by classes of buildings. Operations in these cities on brick buildings (new buildings, additions, alterations, and repairs) cost \$390,915,599, all other forms of fire-resisting buildings cost \$79,743,093, and the cost of wooden buildings, repairs, etc., was \$189,781,881—the total cost for all classes in these cities being \$660,440,573. Los Angeles reported the largest number of new wooden buildings, 10,672, costing \$16,442,162. Detroit was second, with new buildings costing \$11,803,410.

New York City reported the greatest cost of fire-resisting buildings, including additions and alterations, for 1912—\$162,193,893, or 34.46 per cent. of the total cost of buildings of this class in 105 cities. The following cities showed increase in structures of this class in 1912 over 1911: Atlanta, \$3,368,908, or 163.82 per cent.; Boston, \$5,767,827, or 41.90 per cent.; Buffalo, \$1,904,463, or 37.4 per cent.; Detroit, \$4,085,255, or 45.67 per cent.; Indianapolis, \$564,322, or 14.34 per cent.; Los Angeles, \$4,821,511, or 54.81 per cent.; Milwaukee, \$2,278,462, or 39.11 per cent.; Minneapolis, \$610,305, or 80.4 per cent.; Oakland, \$939,267, or 54.01 per cent.; Rochester, \$1,729,690, or 57.49 per cent.; San Francisco, \$2,006,772, or 16.91 per cent.; Seattle, \$821,450, or 38.38 per cent.; and Washington, \$3,442,031, or 26.52 per cent.

A copy of the advance chapter from Mineral Resources of the United States on the

statistics of the clay-working industries in the United States in 1912, by Jefferson Middleton, which contains the statistics of building operations, may be had on application to the Director of the Geological Survey at Washington, D. C.

BUILDING A HOME.

Remembering that beauty is a matter of composition, of color and proportion; that cleverness can handle any material, labor, space or forced economy, it is evident that the one really dominant, unescapable element is the size of the idea that one brings to the problem of building a home. Given any amount of material, labor, space and money, if the controlling idea be small and mean, its baldness is but proclaimed the more. The paucity of ideas may be seen in many a city, town or village the land over.

So the master of the situation is not the lumber dealer, the carpenter or the vender of suburban lots. It is the architect. He must be a man of ideas, of feelings, of sympathies—in a word, an artist in the humanities of daily life.

But, after all, asks an architectural authority, what is it that we wish our house to express? Is it not our philosophy of daily life? As long as we continue to live, this philosophy will go on changing—improving, let us hope—but does there not come a time when the broad lines are sufficiently settled to make it possible to express them in the outer shell of life—the house we inhabit. To put up a pretentious, ill-constructed house represents one type; to put up a dignified dwelling, another. By its very nature a chateau is pretentious. But the pretensions have the necessary foundations. In a smaller dwelling, lest the dignity suggest something of the old Puritan rigidity and priggishness, it can be softened with a hint of comfort. And then, lest this comfortable dignity suggest selfishness and exclusion, add a touch of hospitality, and hospitality leads us back to the roof and the entrance.

These same qualities may be expressed inside, throughout the entire house, in fact. But there must be other things expressed, for the house is not an end in itself.

So the architect but prepares the way; the people who live in the house contribute the individuality, the distinction; the final charm, without which the most beautiful house is merely a shell. Sometimes it is difficult to tell where the work of the architect ends and that of the owner begins, and this is the ideal condition.

No matter how well the architect and the decorator have done their work, the real home feeling must be contributed by the occupants. Books and pictures and the various things which we know to be useful or believe to be beautiful have their place quite as much as the rug on the floor or the paper on the wall. The personal touch, the “human interest,” is absolutely necessary. Restraint is desirable in all things; in the arrangement of the parlor mantel as well as in the larger issues of life. Simplicity of arrangement is

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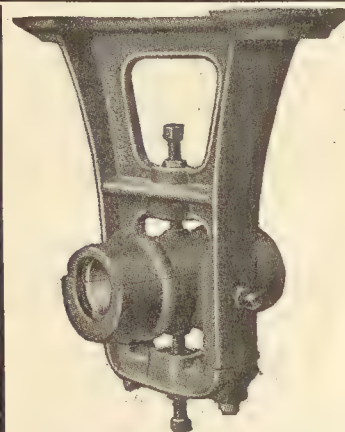
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so bound up with repose and the absence of the trifling that it cannot well be separated. A few pictures, chosen to accord with the room, books placed within reach of those who use them, lamps located where they are needed, flowers arranged with a Japanese feeling for the value of the leaf and stem, are expressions of a love for a simple arrangement. Beauty no less than comfort is dependent upon this vital principle.

Individuality has its place among the important things in house decoration, a quality difficult to define in people, are merely eccentric. There are no rules by which individuality may be attained, no methods by which it may be mastered.—“House Beautiful.”

ABSTRACT OF AN ESSAY ON FLATS.

Those of our readers who dwell in “flats” or apartment houses in the large cities of the country cannot fail to appreciate the following abstract of an essay on flats by George Fitch and copyrighted by George M. Adams:

“Flats are an invention whereby people who live in crowded cities can be piled up in layers like pancakes.

“A flat consists of a collection of living rooms all on one floor. A flat building consists of from six to sixty sets of rooms all under one roof and under the over-lordship of a janitor, who lives in the basement and doses the furnace with coal on the homoeopathic plan. A really expert janitor can run a twelve-flat furnace all winter on a wagon load of coal and can so chill the tenants when they come down to complain that their rooms will seem tropical when they return to them.

“Flats are built of brick, wood, stone, strawboard, felt and tissue paper, the latter being used principally for partitions. An economically built flat building is usually provided with a lightwell which is entirely filled with conversation. By means of this well the occupant of the topflat can hear what the husband of the first floor says when the coffee doesn't suit him, and when the woman in number 2 tells her late returning spouse that he is a brute the women in numbers 1, 3, 4, 5, 6, 7 and 8 quiver with simultaneous indignation.

“Flats have handsome hallways fitted with New Jersey Turkish rugs, and back porches where one may have a garden consisting of a geranium. They are also provided with bathtubs and two kinds of water, cold and not so cold. In the cities, owing to the high price of ground, aldermen and building material, the rooms in a flat are sometimes very small—so small that when the daughter is playing the piano the mother has to wash the dishes gently for fear of splashing on the music—so small that the members of the family have to be measured for the bedrooms as they would for vests, and anyone weighing over 180 pounds has to work himself into the bathroom by means of glove powder and a shoehorn.”

GREATEST CEMENT REGION IN THE WORLD.

The Lehigh cement district of eastern Pennsylvania, with a few plants in New Jersey, is the most important cement-making region in the world. As a whole the Lehigh district makes nearly one-third of the cement produced in the United States. The production of cement in Pennsylvania in 1911 was 27,024,725 barrels, valued at \$19,306,349, against 27,625,340 barrels, valued at \$18,945,835 in 1912. Pennsylvania is by far the leading state in the production of cement, with approximately one-third of the total output of the country.

The production of limestone is the principal factor in giving Pennsylvania first place as a producer of stone. The state is also first in the production of slate, sand and gravel, and lime. In 1911 the total value of the stone quarried in Pennsylvania, exclusive of slate and of limestone made into lime, was \$8,147,505; in 1912 it was \$9,144,214. In the production of slate Pennsylvania is credited with nearly 60 per cent. of the total output of the United States, the value of the output in 1912 being \$3,474,247. Pennsylvania has nearly one-half the total number of lime producers in the United States, and its production is about 25 per cent. of the total quantity and 20 per cent. of the total value, in 1912 the production being 849,159 short tons, valued at \$p,679,420. Lime burning as an industry is scattered pretty well over the state.

The combined production of sand and gravel in Pennsylvania in 1911 of 5,689,059 short tons, valued at \$3,025,267, increased to 6,509,333 short tons, valued at \$3,271,512 in 1912.

ART PLANS FOR THE PANAMA CANAL.

Now that the digging and fortifying of the Panama Canal are nearing completion, many and varied suggestions are being made as to the possibilities of adding to this huge engineering achievement the finishing touch of art. An official plan is the building of a single great monument at the continental divide; others favor the erection of a lighthouse at either side of the canal at the Atlantic entrance; statues of the great explorers are also advocated. According to the “New York Times,” the suggestion from France is “that the early work of Ferdinand De Lesseps, the French engineer, be commemorated by a statue to him at some conspicuous point on the canal. . . . One proposal is for colossal pillars, at the outermost points of the Atlantic and Pacific entrances, surmounted by statues of heroic proportions of Columbus and Balboa. Another suggestion is for a statue to Senator John Morgan, of Alabama, one of the pioneer advocates of Isthmian canal construction.”

The Government Commission of Fine Arts, made up of many of the leading sculptors and architects of this country, has studied

the problem of beautifying the canal, but its report, which is awaiting action by Congress, has only one specific proposal for a commemorative monument; namely, an impressive inscription in Roman lettering on a monument about 100 feet in height and somewhat more in width, the material to be concrete.

Frederick Law Olmsted, the landscape gardener, suggests that any further ornamentation of the waterway should be undertaken only after serious consideration, bearing in mind that the outstanding feature of the canal is utility rather than ornament.

OLD BRICKWORK.

A splendid heritage of brick architecture has been handed down to us through past centuries. There is a period in its history which is or should be of the greatest interest to us. That period is the introducing of brick architecture into England, says “The Contract Record.

The history of English brickwork is generally supposed to date from the middle of the fifteenth century, for the few isolated examples erected prior to that time either dated from the era of Roman occupation or represented a spasmodic attempt of Saxon builders to imitate the building construction of their late conquerors. Such rare examples as St. Alban's, St. Botolph's Priory and possibly half a dozen other brick edifices, are not sufficient to establish a claim for the birth of brickwork in England, for it was not until many centuries later that the seed of brick construction was planted on English soil to blossom so speedily into such artistic creations as Eton College, Great Snoring Parsonage, East Barham and other well-known examples.

It was from the Flemish brick builders that the English received the incentive to erect their private and public buildings of a material so pliable in form and one which offered such possibilities in the way of decorative treatment.

By the middle of the 16th century such examples of brick architecture as Oxborough Hall and Tattershall Castle show that the English people had not only learned the lesson of brick building from their Dutch friends, but had evolved an original type as regards outline of design and details of structure.

THE TEN GREATEST INVENTIONS.

“What are the ten greatest inventions of our time?” asked a scientific journal recently. It awarded the prize to the contestant sending this list: The electric furnace, the steam turbine, the gasoline automobile, the moving pictures, the aeroplane, wireless telegraphy, the cyanide process, the induction motor, the linotype, the electric welding process. And all this was accomplished in a quarter century. Can you name off-hand seven of the inventors?—“Power.”

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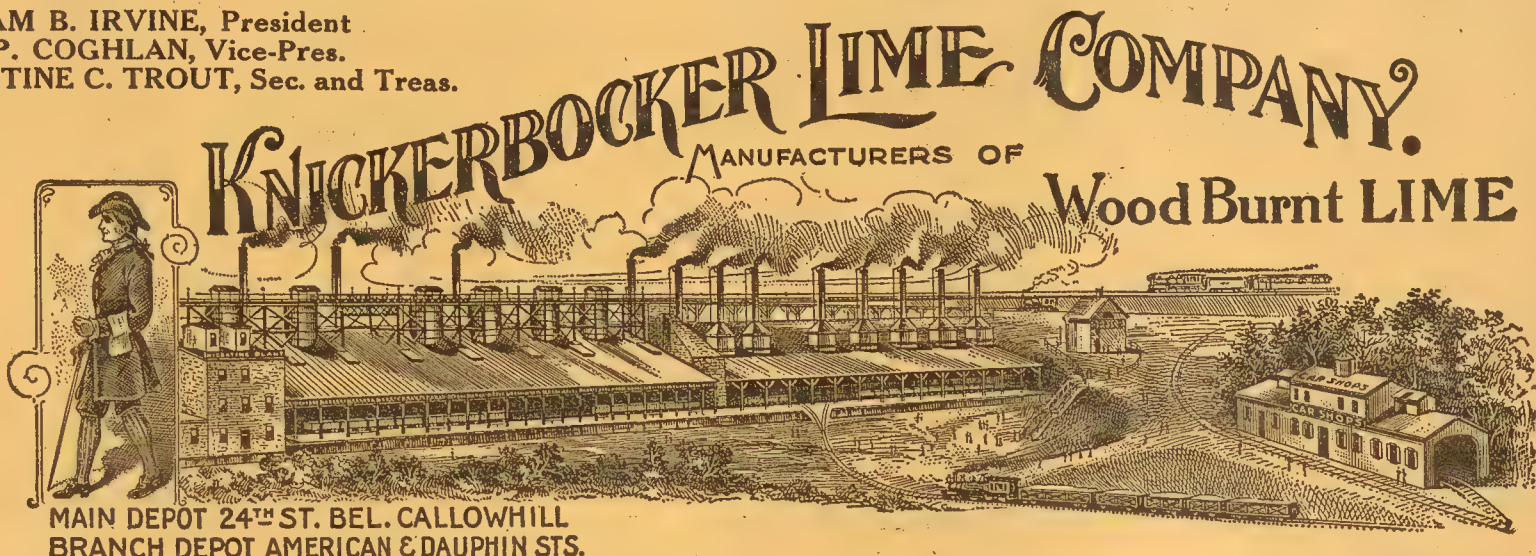
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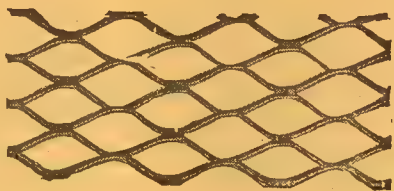
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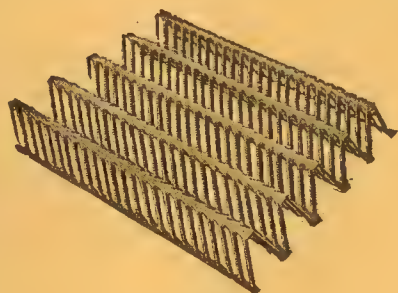
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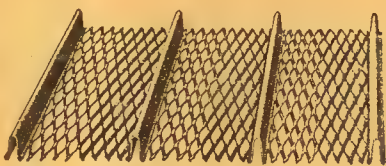


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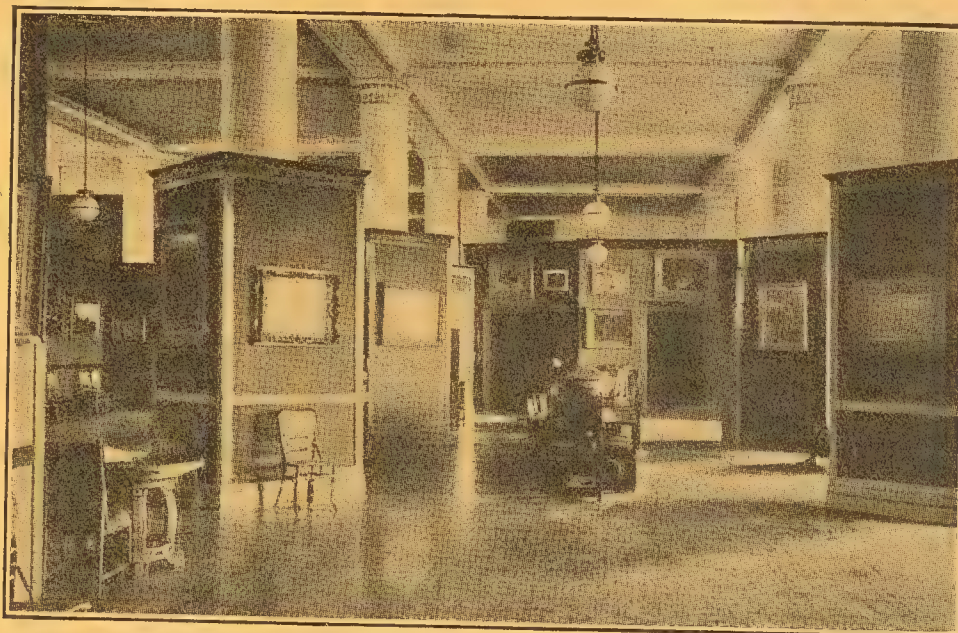
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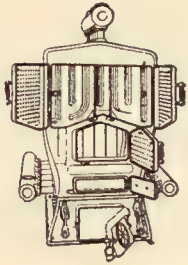
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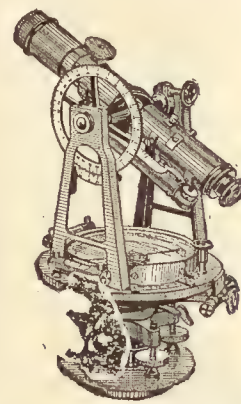
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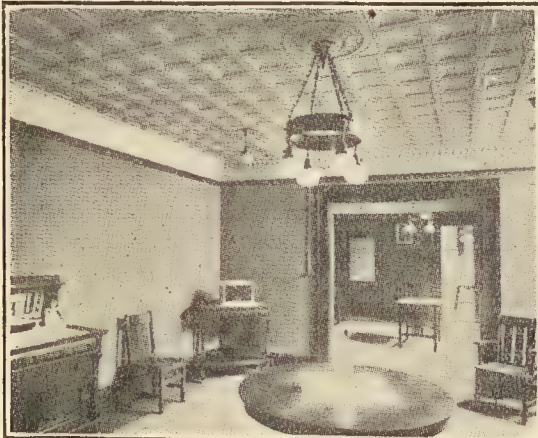


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PHILADELPHIA, WEDNESDAY, FEBRUARY 11, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (4), Latham Park, Pa. Architect, Frank Seeburger, Pennsylvania Building. Owner, Estate of William L. Elkins, Land Title Building. Stone, timber and rough cast, 2½ stories, slate, shingle and tile roofs, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Garage, Radnor, Pa. Architects, Harris & Rush, 130 South Fifteenth street. Owner, Oswald Chew, 1011 Chestnut. Stone, 1½ stories, 21x47 feet, shingle roof, hot-water heating, electric lighting, gasoline pump and storage. Architects have received bids.

Residence, Chestnut Hill, Pa. \$15,000. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, name withheld. Stone, 2½ stories, slate roof. Plans in progress.

Apartment House, Germantown, Philadelphia. Architect, M. H. Dickinson, street. Owner, name withheld. Brick, 3 stories, 48x82 feet, slag roof. Plans in progress.

Church, Darby, Pa. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owner, Blessed Virgin R. C. Church, care of Rev. W. A. Fitzgerald, Darby, Pa. Stone, 2½ stories, 60x80 feet, slate roof, slag roof, electric light, hot-water heat, basement and first floor will be built first. Plans completed. Architects ready for bids in a few days.

Stable and Wagon Shed, McKean and Water streets. Architect, C. W. Denny, Hale Building. Owners, Union Petroleum Co., on premises. Brick and Concrete, 2 stories, 62x101 feet, slag roof, metal windows and doors, rolling steel shutters, metal lath. Architect has received bids.

Carriage Shed and Farm Buildings, Ambler, Pa. Architect, A. F. Schenck, 511 Betz Building. Owner, J. W. Miller, Ambler, Pa. Hollow tile and plaster, 1½ stories, shingle roof, electric light. Plans in progress.

Store and Apartment House, 3336 North Broad street. Architects, Lachman & Murphy, Witherspoon Building. Owners, Thomas J. Beck & Son, 3320 North Broad street. Brick, 3 stories, slag roof, steam heating, electric lighting. Plans about completed. Architects will take bids in a few days.

Hospital, Carlisle, Pa. Architect, E. F. Ber-tolet, West End Trust Building. Owner, Carlisle Hospital, Carlisle, Pa. Stone, 3 stories, 75x125 feet, slate roof, steam heating, electric lighting. Owners are taking bids.

Residence (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building. Owner, William Fronheiser, Pottstown, Pa. Brick, 2½ stories, electric lighting, hardwood floors. Owner taking bids. The following are figuring: F. H. Kaiser, W. H. Wiand, Hutt & Knott, Copeland & Rapp, all of Pottstown, Pa.

Pier, Catharine street, Delaware River. \$350,000. Engineer, Department of Wharves and Docks, Bourse Building. Owner, City of Philadelphia, Department of Wharves, Docks and Ferries, Bourse Building. Concrete and steel, slag roof, electric lighting. Owner taking bids due March 2nd. Armstrong & Latta and Ed. F. Fonder, Land Title Building, are figuring.

Residences (36), Sixtieth and Latona streets. Architects, private plans. Owners, Moss & Taylor, Fifty-eighth street and Girard avenue. Brick, 2 stories, 16x40 feet, slag roof, electric light, hot-water heat, hardwood floors. Plans in progress. Owners will take sub-bids.

Residence, Wyncote, Pa. Architect, Mantle Fielding, 518 Walnut street. Owner, Harold S. Eckles, Wyncote, Pa. Stone, 2½ stories. Plans in progress.

Dormitory Buildings, Morton, Pa. Architects, Street & Stackhouse, Drexel Building. Owners, Dermady Sanitarium, Morton, Pa. Frame, 2½ stories, 45x62 feet, shingle roof, electric lighting. Plans in progress.

Apartment House (alt. and add.), Haverford, Pa. \$15,000. Architect, John Charles Norton, Bryn Mawr, Pa. Owner, Warner Estate, Haverford, Pa. Stone and plaster, 3 stories, slag roof, electric lighting, oak floors (heating, reserved). Architect has received bids.

Residence and Garage, Melrose, Pa. Architect, Carl P. Berger, 1418 South Penn Square. Owner, Harry C. Berlinger, 1241 Westmoreland street. Stone, 3 and 2 stories, 41x46 and

20x24 feet, hot-water heating, electric lighting, hardwood floors. Architect taking bids due February 12th. The following are figuring: Burd P. Evans Co., Thirteenth and Wallace streets; A. Raymond Raff, 1635 Thompson street; Kessler & Co., Drexel Building; Frederick Elvidge, 5522 Germantown avenue; John Morrow, Ninth street and Oak Lane avenue; Specht & Sperry, Heed Building; Ketcham & McQuade, 1029 Brown street; Samuel Harting, 20 East Johnson street; Herman Voigt, 1251 North Twenty-eighth street; Henry Specht, Willow Grove, Pa.; J. Sims Wilson, 1125 Brown street.

Garage, Oak Lane, Philadelphia. Architect, Valentine B. Lee, 1003 Spruce street. Owner, Henry Linde, Twenty-third street and Columbia avenue. Stone and frame, 2 stories, 33x40 feet, tile roof, hot-water heating, electric lighting, metal lath, gasoline tank and pump. Architect has received bids.

Mining School Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street. Owner, Pennsylvania State College, State College, Pa. Brick, 2 stories. Plans in progress. Architects will take bids in about one month.

Dye House, Clearfield street and Trenton avenue. Architect, private plans. Owner, John Blood Bros., Inc., Allegheny and Trenton avenues. Brick, 1 story, 55x136 feet, slag roof (heat and light, reserved). Owners have received bids.

Residence, Chestnut Hill, Pa. Architects, Furness Evans Co., Provident Life & Trust Building. Owner, Ed. H. Butler, 435 Chestnut street. Stone, 3 stories, 36x75 feet, shingle roof, electric light, hardwood floors (heat, reserved). Architects taking bids due February 11th. The following are figuring: J. B. Flounders, 1329 Arch street; J. Sims Wilson, 1029 Brown street; Stacy Reeves & Sons, 2011 Market street; A. Whitehead, 1624 Latimer street; Pringle Borthwick, 8018 Germantown avenue; William R. Dougherty, 1610 Sansom street; G. S. Roth & Sons, 230 East Gravers lane.

Service Building, Toronto, Canada. Architect, John Graham, Ontario, Canada. Owners,

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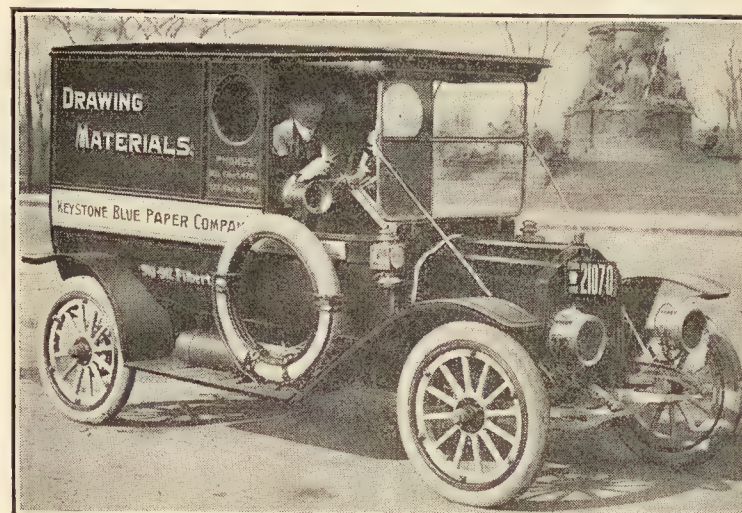
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Residence, Cynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, name withheld. Frame, 2½ stories, 52x54 feet, shingle roof (heat and light, reserved). Architects taking bids due February 16th. The following are figuring: H. E. Grau Co., 1707 Sansom street; J. E. Kearney, 327 North Sixty-third street; A. Whitehead, 1624 Latimer street; Mowrer Bros., Merion, Pa.; Walter D. Smedley, Narberth, Pa., and E. E. Hollenback, Fifteenth and Race streets.

Factory (add.), Eleventh and Wood streets. Architects and Engineers, Franklin Co., Crozer Building. Owner, Walter H. Jarden, on premises. Brick and concrete, 4 stories, 20x70 feet, slag roof.

Residence, St. Martin's, Pa. Architect, Herbert C. Wise, 133 South Twelfth street. Owner, Theodore L. McDowell, care of architect. Brick and plaster, 2½ stories (heat and light, reserved). Architect taking sub-bids due February 13th, on all lines.

High School, Washington, D. C. \$600,000. Architect, Snowden Ashford, Washington, D. C. Owners, District of Columbia, District Commission, Washington, D. C. Brick, stone and concrete, 4 stories, 195x373 feet, tile and composition roof, enamel brick, waterproofing, steel casement windows, elevators, electric light, steam heating. Owners taking revised bids due March 2nd. The following are figuring: Wells Construction co., Witherpoon Building; J. E. & A. L. Pennock, Land Title Building, and Cramp & Co., Denckla Building.

Dwellings (350), Twenty-fifth and Westmoreland streets. Architects, Anderson & Haupt, Drexel Building. Owners, Richard H. Sharp, 4622 Walnut street. Brick, 2 stories, 15x40 feet, slag roof, electric light, hot-water and steam heat, hardwood floors. Plans in progress. Owners will take sub-bids.

Garage, Devon, Pa. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, The

Devon Garage, Devon, Pa. Stone and brick, 1 story, 40x60 feet, slag roof, electric light, steam heat. Architect taking bids. W. J. McCone, Devon, Pa., is figuring. Only bidder.

Residence, Wynnewood, Pa. Architects, Felson & Stanton, 1433 Chestnut street. Owner, A. W. Swartz, Ardmore, Pa. Hollow tile and plaster, 2½ stories, 25x35 feet, shingle roof, electric lighting. Architect taking revised bids. E. J. Kreitzburg, 1345 Arch street, and Charles C. Pace, Merion, Pa., are figuring.

Residence (alt. and add.), Master and Sydenham streets. Architect, Henry L. Reinhold, Jr., 1309 Walnut street. Owner, George S. Coyne, 116 North Front street. Brick and brownstone, 3 stories, 20x50 feet, slag roof, electric light, steam heating. Architect taking bids, due February 12th. The following are figuring: Smith-Hardican Co., 1606 Cherry street; E. H. Sturts, 2614 Ridge avenue.

Manufacturing Buildings, Gloversville, N. Y. Architects and engineers, William Steele & Sons Company, 1600 Arch street, Philadelphia. Owners, G. Levor & Co., Gloversville, N. Y. Brick, steel and concrete, 1, 2, 3 and 4 stories. Consists of a group of four manufacturing buildings and power house. Plans in progress. Builders, William Steele & Sons Company, will take sub-bids on all lines.

Hotel (alt. and add.), Eighteenth and Ridge avenue. Architect, private plans. Owners, Ridge Avenue Farmers' Market Hotel, care of H. B. Hunsicker, on premises. Brick, 4 stories, slag roof, electric light, steam heat and interior alteration and addition. Owners taking bids, due February 16th. The following are figuring: F. A. Havens & Co., 845 North Nineteenth street; Herman Voigt, 1251 North Twenty-eighth street; William R. Dougherty, 1610 Sansom street.

Residence, Latham Park, Pa. Architect, E. W. Thames, 318 Bulletin Building. Owner, William L. Elkins Estate, Land Title Building. Stone and plaster, 2½ stories, 42x45 feet, slate roof, electric light, hot water heat, hardwood floors. Architect taking bids, due February 14th. The following are figuring: John Morrow, Oak Lane, Pa.; W. John Stevens, Wyncote, Pa.; W. D. Lukens, North Wales, Pa.; Thomas C. Trafford, 1613 Sansom street; H. E. Baton, Tenth and Sansom streets, and Specht & Sperry, Heed Building.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Liberal Arts Building, State College, Pa. \$75,000. Architects, Day & Klauder, 925 Chestnut street. Owner, Pennsylvania State College, State College, Pa. Brick and Indiana limestone, 2 stories, 54x110 feet, slag roof, Plenum System of heating, electric lighting. Contract awarded to H. L. Brown, 1714 Sansom street.

Caddy House, Sumner, N. J. Architect, Ralph E. White, Pennsylvania Building. Owner, Pine Valley Country Club, Sumner, N. J. Frame, 1 story, 20x40 feet, shingle roof. Contract awarded to Specht & Sperry, Heed Building.

Factory (add.), Eleventh street and Washington avenue. Architect, Werner Trumbauer, Crozer Building. Owners, John Wyeth & Bros., Eleventh street and Washington avenue. Brick, 2 stories, 60x130 feet, slag roof. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Moving Picture Theatre, Fifty-ninth and Market streets. \$100,000. Architects, Hoffman & Co., Thirteenth and Walnut streets. Owners, Cross Key Amusement Co., care of J. McQuirk, Parkway Building. Brick and terra cotta, fire-proofing, 1 story, 110x155 feet, slag roof, electric lighting, steam heat. Contract awarded to George Hogg, 1634 Sansom street.

Weather Bureau Station, Sandy Hook, N. J. Architect, Frank Upman, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and terra cotta, 2 stories, 36x41 feet, composition roof, electric light, hot-water heat, oak floors, weather strips, hollow tile partitions. Lowest bid submitted by the Altoria Construction Co., 3 East Forty-fourth street, New York City. \$15,770.

Y. W. C. A. Building, 5020 to 5024 Germantown avenue. \$55,000. Architect, Louis H. Rush, 130 South Fifteenth street. Owner, Y. W. C. A., 5503 Germantown avenue. Brick, stone and terra cotta, 3 stories and basement, 58x162 feet, asbestos roof (heat and light, reserved), hollow tile partitions, dumb waiters, water-proofing, metal lath, enamel bricks, composition floors. Contract awarded to W. J. Gruhler, 219 E. High street, Germantown.

Club (alt. and add.), 157 and 159 North Fifteenth street. \$30,000. Architects, Watson & Huckel, 1211 Walnut street. Owners, International Society Waiters and Bartenders, 1131 Arch street. Brick and terra cotta, 36x

100 feet, slag roof, electric light, vapor vacuum heating, damp-proofing, marble interior, metal lath. Contract awarded to Stacy Reeves & Sons, 2011 Market street.

Residence, Cynwyd, Pa. \$18,000. Architects, Weldon & Hall, 2000 Green street. Owner, G. Bromley Service, The Clinton, Philadelphia. Stone and frame, 35x70 feet, shingle and tin roof, oak floors (hot-water heat and electric lighting, reserved). Contract awarded to Charles Gilpin, Harrison Building.

Boiler House, Swanson and Tasker streets. Architects, Anderson & Haupt, Drexel Building. Owners, Berg Distilling Co., on premises. Brick and concrete, 1 story, 40x50 feet, slag roof. Contract awarded to Standard Construction Co., Drexel Building.

School, Forty-seventh and Locust streets. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Brick, terra cotta, 3 stories and basement, 114x162 feet, slag roof, concrete, hollow tile fire-proofing, metal sash, metal lath, damp-proofing (heat and light from central plant). Lowest bid was submitted by Cramp & Co., Denekla Building. \$159,537.

Garage, 70 West Washington lane, Germantown. Architect, private plans. Owner, Harry Gordon, on premises. Brick, 1 story, 60x80 feet, slag roof, electric light, steam heat. Contract awarded to H. E. Baton, Tenth and Sansom streets.

Store Building, Hazleton, Pa. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Gerhart & Friedlander, Hazleton, Pa. Brick, 2 stories, 66x126 feet, slag roof, heat and light plant, hollow tile partitions, metal ceilings, iron doors and frames, steel sash and frames, rolling steel sash, marble interior, expanded metal. Contract awarded to S. Y. Frederick, Hazleton, Pa.

Apartment House, 413 South Sixty-third street. Architect, A. B. Harding, care of owner. Owner, C. W. Miller, 5716 Girard avenue. Brick and plaster, 3 stories, 50x208 feet, slag roof, electric light, steam heat, hardwood floors. Contract awarded to Mitchell Bros., 2125 Race street.

Machine Shop, 1015-1019 Hamilton street. Architect, H. E. DeHoff, 48 South Sixty-first street. Owners, H. B. Underwood & Co., on premises. Brick and steel and concrete, 2 stories, 60x160 feet, slag roof, metal windows, electric light. Contract awarded to John N. Gill Company, Heed Building.

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Permanent—Easy to Work

Manufactured only by

SAMUEL H. FRENCH & CO.

Philadelphia, Pa.

Established 1844

Write for samples and prices

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrapper cannot possibly hold out against progress. The best equipped shop never asks as much as the gloomy, ugly, and unobliging establishment. Be progressive.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

SOME MORE ADVERTISING "DONT'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

Blue Prints

BLUE, BROWN AND BLACK LINE PRINTING
Reasonable Prices—Prompt Service

Tracings called for and delivered. Phone orders will receive prompt attention.

CRAIG BROTHERS, Successors to The H. H. STOREY CO.

Bell, Lombard 3559
Keystone, Main 1935

329 Walnut Street, Phila.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Thomas Merkel (O), 130 East Minter street. Cost, \$3,800. Two dwelling, brick, 2 stories, 16x30 feet, Loudon and Second streets.

Borne & Collings (O), 5441 Haverford avenue. Cost, \$25,000. Eleven dwellings, brick, 2 stories, 15x29 feet. Fifty-eighth street and Lansdowne avenue.

F. Feldman (O), Fifth and Moore streets. M. Kerchner (C), 421 Snyder avenue. Cost, \$22,250. Seven dwellings, brick, 2 stories, 16x43 feet, Twenty-fifth street and Allegheny avenue. Cost, \$6,200. Two dwellings and stores. Cost, \$6,200. Two stores and dwellings.

Schreiber & Stenhauser (O), Fifth street and Tabor road. Cost, \$20,000. Eight dwellings, brick, 2 stories, 16x51 feet, 5412 to 26 North Fairhill street.

Wilson & Weller (O), Yord road and Wagner street. Cost, \$15,000. Store and office, brick, 2 stories, 32x107 feet, Broad and Ruscomb streets.

Kahn & Greenberg (O), Morris Building.

Cost, \$4,000. Garage, brick, 1 story, 32x100 feet, 209 South Twenty-fourth street.

Daniel Crawford (O), 701 North Sixty-third street. Cost, \$34,200. Nineteen dwellings, brick, 2 stories, 15x39 feet. Cost, \$35,000. Nineteen dwellings. Cost, \$2,600. One dwelling.

Charles Schmidyall (O), 175 West Ontario street. Samuel Morrison (C), 2601 North Fifth street. Cost, \$2,800. Stable, brick, 2 stories, 30x100 feet, E and Palethorp streets.

F. Hennesy (O), Philadelphia. Greund-Seidenbach Co. (C), Bulletin Building. Cost, \$11,000. Theatre, brick, 1 story, 55x83 feet, Seventeenth and Annin streets.

Samuel Rosenberg (O), 716 Morris street. H. Perlstein (C), 519 South Sixth street. Cost, \$3,100. Store and dwelling, brick, 3 stories, 18x50 feet, 515 South Sixth street. Cost, \$10,000. Four stores and dwellings.

University of Pennsylvania (O), Thirty-fourth and Walnut streets. William R. Dougherty (C), 1610 Sanso mstreet. Cost, \$5,200. Dormitory, brick, 3 stories, 96x30 feet, Thirty-fourth and Spruce streets.

Alterations and Additions

McCray & Hunter (O), 3529 Germantown avenue. J. Y. Loux (C), 1121 Rising Sun lane. Cost, \$4,845. Store, 4927 Germantown avenue.

F. C. Seifert (O), Darien street and Columbia avenue. C. Dear (Cc), 4905 York road. Cost, \$2,000. Store, Darien street and Columbia avenue.

A. E. Brown (O), 5208 Market street. Cost, \$1,000. Theatre, 5206 Market street.

Bell Telephone Co. (O), Thirteenth and Arch street. Pomeroy Construction Co. (C), 1609 Ranstead street. Cost, \$1,000. Exchange, Seventeenth and Diamond streets.

A. M. M. Lindly (O), 4702 4Peen street. Cunningham & Bartholomew (C), 4326 Penn street. Cost, \$1,700. Dwellings, Grant avenue and Ashton street.

P. F. Kernan (O), 1201 Chestnut street. Mitchell Bros. (C), 2125 Race street. Cost, \$3,100. Dwelling, 4719 Chestnut street.

G. Berman (O), 264 South Third street. Fishman (C), 713 North Eighth street. Cost, \$1,000. Dwelling.

Bush & Terry (P), Connor and Jasper streets. R. Beatty Bros. (C), 2327 Fletcher street. Cost, \$2,000. Shed, Connor and Jasper streets.

J. F. Schick (O), Seventeenth and Spruce streets. R. B. Stunk (C), 6035 York road. Cost, \$1,400. Shop, Seventeenth and Spruce streets.

School of Industrial Art (P), Broad and Pine streets. F. W. Allison & Co. (C), 1710 Rittenhouse street. Cost, \$850. School, Broad and Pine streets.

William Freihofer (O), Twentieth street

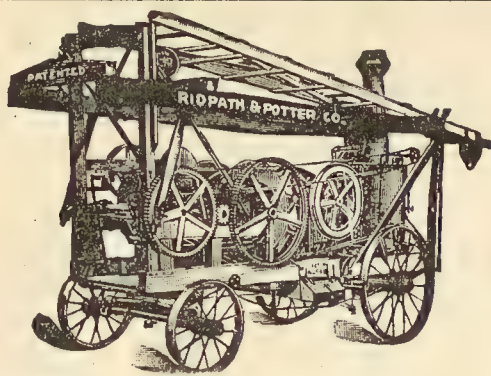
and Indiana avenue. P. Haibach (C), Twenty-sixth and Thompson streets. Cost, \$800. Store, Margaret street and Frankford avenue.

A. Massano (O), 528 North Sixty-third street. F. Esbornson (C), 1700 North Sixth street. Cost, \$1,500. Store and dwelling, 6044 Haverford avenue.

Joseph Flovowitz (O), Margaret and Cambria streets. M. Peacon (C), 2571 Orthodox street. Cost, \$1,250. Store and dwelling, 2371 Margaret street.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."



We Drill Wells and Get Water

LET US SUBMIT PRICES
RIDPATH & POTTER CO.
587 Bourse Building
Philadelphia, Penna.

NEW JERSEY Construction News

Residence, Atlantic City, N. J. \$12,000. Architect, Frank Seeburger, Pennsylvania Building. Owner, name withheld. Frame, 3 stories, 36x36 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architect will take bids in about 10 days.

Residence, Delanco, N. J. \$4,200. Architect, Herbert C. Zeigler, Riverside, N. J. Owner, E. Johnson, Delanco, N. J. Frame, 2½ stories, 30x30 feet, asbestos, shingle roof, hot-air heating, electric lighting. Architect taking bids. G. D. Logan, Beverly, N. J., and Samuel Hammel, Delanco, N. J., are figuring.

Store, Office and Residence, Mt Holly, N. J. Architect, private plans. Owner, Morris H. Keeler, Mt. Holly, N. J. Stone and brick, 3 stories, hot-water or steam heating, electric lighting, slag roof. Builder, E. H. Curtis is taking sub-bids.

Apartment House and Residences (2), Florence, N. J. Architect, private plans. Owner, Florence Iron Works, Florence, N. J. Brick, 2½ stories, 31x38 feet, and 16x28 feet, and 31x28 feet, asbestos shingle roof, hot-air heating. Revised plans in progress.

Residence, Ventnor, N. J. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, C. A. Blanchard, care of architect. Brick and frame, 4½ stories, 30x50 feet, slate roof, hot-water heat, electric light, hardwood floors, tile baths. Plans completed. Architect will soon take bids.

Residence, 24 South Trenton avenue, Atlantic City, N. J. \$4,000. Architects, private plans. Owner, Joel Mason, 3825 Atlantic avenue, Atlantic City, N. J. Brick and frame, 3½ stories, 24x52 feet, slag roof, hot-water heat, electric light. Owner is taking sub-bids.

School, Absecon, N. J. \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Absecon, N. J. Brick, 2 stories, 50x85 feet, slate roof, electric lighting. Owners taking bids due February 12th, 8 P. M. The follow-

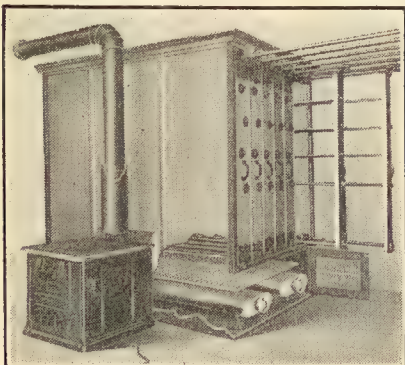
ing are figuring: Mathis & Son, Bartlett Building; Charles S. Corson, Linwood, N. J.; E. E. Smith, P. G. Hannum, 16 North Georgia avenue; C. E. Shappell, 4803 Ventnor avenue; E. L. Bader, Bartlett Building; W. Beaumont, 12 South Tennessee avenue, all of Atlantic City, N. J.; H. K. Spear, Hammon-ton, N. J.; James Yates, Pleasantville, N. J.; Alexander Chambley, 243 South Tenth street, Philadelphia, and C. T. Logue, Boston, Mass.

Children's Home, Perry and Broad streets, Trenton, N. J. \$40,000. Architect, W. P. Enderrock, American Mechanic Building, Trenton, N. J. Owner, Roman Catholic Church, Trenton Diocese, care of Right Rev. Bishop James McFaul, 153 North Warren street, Trenton, N. J. Brick and stone, 3 stories, reinforced concrete, hollow tile, slate and slag roof, steam heat, electric lighting, metal lath. Plans nearing completion. Architect will soon take bids.

Culverts (3), Mercer County, N. J. Engineer, Theo. Tobish, Court House, Trenton, N. J. Owner, Board of Freeholders, care of Theo. Hunt, Chairman, Court House, Trenton, N. J. Reinforced concrete. Owners are taking bids, due February 22nd, 2.30 P. M.

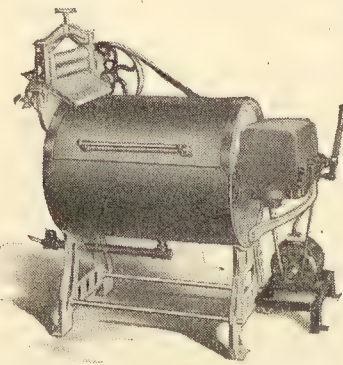
Residence, Lawrenceville road, Trenton, N. J. \$12,000. Architects, W. W. Slack & Sons, American Mechanic Building, Trenton, N. J. Owner, John L. Brock, care of Brock's Garage, Canal street, Trenton, N. J. Frame and stucco, 2½ stories, tile roof, metal lath, hot-water heat, electric light, hardwood floors, tile baths. Architect taking bids. The following are figuring: Burton & Burton, American Mechanic Building; S. Harper Clayton, American Mechanic Building; D. A. Dugan, 404 Greenwood avenue; Scott & Day, 232 South Olden avenue; S. Mathis, 30 South Clinton street, all of Trenton, N. J.

Apartment House, Atlantic City, N. J. \$100,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, name withheld. Brick and granite, fireproof, 6 stories, 150x140 feet, slag roof, steam heat, electric light, electric elevators. Plans completed. Architect ready for bids.



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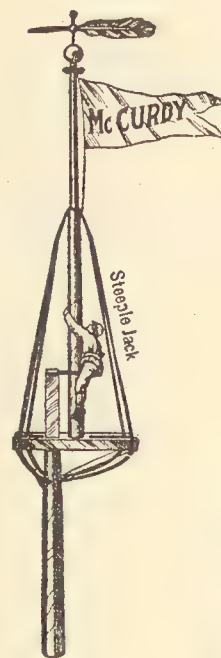
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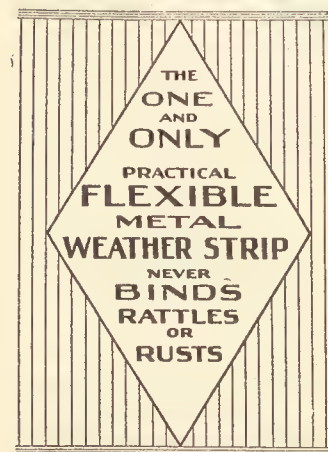
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Keystone, Race 60-17A

Diamond Flexible Metal Weather Strip



Geo. R. C. Johnston, Eastern Sales Representative
371 Drexel Bld., Phila., Pa.

HARRY C. EISENBISE CO. Consulting Engineers

1302 Pennsylvania Bldg., Phila.
PHONE SPRUCE, 62-91

Department Store, Egg Harbor City, N. J. \$10,000. Architect, Bertram Ireland, Bartlett Building Atlantic City, N. J. Owner, Max Rittenburg, Egg Harbor, N. J. Brick, 2 stories, slag roof, steam heat, metal ceilings, electric lighting. Owner taking bids. F. Wegelin, J. Green, O. Giesel, P. Young, E. Weiler & Sauer, all of Egg Harbor, N. J., are figuring.

Comfort Station, foot of California avenue, Atlantic City, N. J. Architects, Stout & Reibenack, Bartlett Building, Atlantic City, N. J. Owner, City of Atlantic City, care of J. B. Thompson, City Hall. Reinforced concrete, 1 story. Plans in progress.

Apartment House, 134 South Maryland avenue, Atlantic City, N. J. Architect, William S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Abel Spence, care of Architect. Brick, 3 stories, 37x112 feet, steam heat, slag roof, electric wiring, metal lath. Plans in progress.

Hotel, Delaware and Atlantic avenues, Atlantic City, N. J. Architect, Lewis Barker, Bartlett Building, Atlantic City, N. J. Owner, Miss R. Connelly care of architect. Brick, 3 stories, 36x93 feet, slag roof, electric lighting, hot-water heat, tile bath, metal lath. Architect taking bids. C. P. Tilton, A. B. Brown, Thompson Bros. and S. Headley, all of Atlantic City, N. J., are figuring.

Bulkhead, Longport, N. J. Engineer, W. I. Risley, Bartlett Building, Atlantic City, N. J. Owner, Borough of Longport, R. Harcourt, Longport, N. J. Concrete. Owners will soon take bids.

Street Paving, Baltic avenue, Atlantic City, N. J. Engineer, J. W. Hackney, City Hall, Atlantic City, N. J. Plans completed. Owners will soon take bids.

Boardwalk, Maryland to New Hampshire avenue, Atlantic City, N. J. Engineer, J. W. Hackney City Hall, Atlantic City, N. J. Owner, City of Atlantic City, care J. B. Thompson, City Hall. Concrete and timber. Plans completed. Owners will take bids soon.

Apartment House, South Carolina avenue, Atlantic City, N. J. \$50,000. Architect, B. Ireland, Bartlett Building, Atlantic City, N. J. Owner, J. T. Bew, Ventnor, N. J. Brick, 3 stories, 56x75 feet, slag roof, electric light, hot-water heat, hollow tile. Owner and architect taking sub-bids.

Apartment House, Rhode Island avenue, Atlantic City, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building Atlantic City, N. J. Owner, Pacific Realty Co., Bartlett Building. Brick and stone, 3 stories, slag roof, hollow tile, electric light, hot-water heat. Architect taking bids. The following are figuring: S. Headley, Bartlett Building; J. Mathis & Sons, Bartlett Building; Hampton Bros., I. Ingersoll, E. E. Smith and A. B. Bowen, all of Atlantic City, N. J.

Bridge, Egg Harbor City, N. J. Engineer, A. H. Nelson, Bartlett Building, Atlantic City, N. J. Owner, Board of Freeholders, care James Clark, Chairman, Memorial Hall, Atlantic City, N. J. Concrete and steel. Owners are taking bids due February 11th, 11 A. M.

Armory, Asbury Park, N. J. \$25,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey, care of architect. Brick, 1 story, reinforced concrete, steam heating, slate roof, electric lighting. Plans in progress.

Agricultural Building, New Brunswick, N. J. Architect, George S. Drew, State House, Trenton, N. J. Owner, State Agricultural College, care of architect. Brick, stone and reinforced concrete. 3 stories and basement, slag roof, steam heating, electric lighting. Plans in progress.

Lodge, State road, Trenton, N. J. \$75,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owners, Loyal Order of Moose, care of architect.

Stone and brick, 3 stories and basement, 140x30 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Trenton, N. J. \$5,000. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Nathan Saas, 708 South Broad street, Trenton, N. J. Brick, 2 stories, 20x56 feet, slag roof, electric lighting, hot-water heating. Plans in progress. Architect will take bids shortly.

Church Hall, Hopewell, N. J. \$12,000. Architect, Kleeman & Fowler, First National Bank, Trenton, N. J. Owner, First Presbyterian Church, care of Herbert Fretter, Chairman, Hopewell, N. J. Brick, 1 story, 59x54 feet, slate roof, steam heating, electric lighting. Architects ready for bids.

Bridge, Windsor road, Mercer County, N. J. Engineer, Theo. Tobish, Court House, Trenton, N. J. Owners, Board of Freeholders, care John Power, Court House, Trenton, N. J. Reinforced concrete. Owners have received bids.

Residence, Trenton, N. J. \$12,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John S. Dunham, 164 West State street, Trenton, N. J. Hollow tile and stucco, 2½ stories, green tile roof, hot-water heat, electric light, oak floors, hardwood trimmings, tile bath. Plans in progress. Architects will soon take bids.

Theatre, North Clinton and Meade streets, Trenton, N. J. \$25,000. Architect, J. Os-

borne Hunt, 206 East Hanover street, Trenton, N. J. Owners, Hildinger, Bishop & Lamont, 118 Factory street, Trenton, N. J. Brick, 2 stories, 50x140 feet, slag roof, hollow tile steel, electric light, steam heat. Plans about completed. Architects will soon take bids.

Store and Residence, 320 Market street, Camden, N. J. Architects, Moffett & tSewart, Jessup Building, Camden, N. J. Owner, M. Seifert, 322 Market street, Camden, N. J. Brick, stone and terra cotta, 3 stories, electric light, slag roof, composition flooring, metal lath, tile baths (heating, reserved). Architects will soon take revised bids.

Residences (2), Paulsboro, N. J. \$3,000 each. Architect, private plans. Owner, name withheld. Frame, 2½ stories, 20xv2 feet, slate roof, hot-air heating, gas light. Builder Wilbert R. Titus, Paulsboro, N. J., is taking sub-bids.

Theatres and Stores, Vineland, N. J. Architect, Charles J. Brocke, 518 Federal street, Camden, N. J. Owner, J. S. Miller, Bridgeton, N. J. Brick and hollow tile, 2 stories, 40x130 feet, hot-water heat, slag roof, electric lighting. Architect will soon take bids.

Department store, Woodbury, N. J. \$10,000. Architect, Charles J. Brocke, 518 Federal street, Camden, N. J. Owner, H. Polsky, Woodbury, N. J. Brick, 2 stories, slag roof, hot-water heat, electric light. Plans about to be started.

NEW JERSEY

Contracts Awarded

Apartment House, South Massachusetts avenue, Atlantic City, N. J. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owner, Miss Gertrude Keetsier, care of architect. Brick and hollow tile, 3 stories, 24x71 feet, red brick, slag roof, hot-water heating, electric lighting, tile baths. Contract awarded to W. Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

Residences (5), Bartlett avenue, Atlantic City, N. J. \$10,000. Architects, Stout & Reibenack, Bartlett Building, Atlantic City, N. J. Owner, John McGlynn, North Pennsylvania avenue, Atlantic City, N. J. Brick, 2 stories, 14x30 feet, slag roof, electric light. Contract awarded to S. Headley, Bartlett Building, Atlantic City, N. J.

Caddy House, Sumner, N. J. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Pine Valley Country Club, Sumner, N. J. Frame, 1 story, 20x40 feet, shingle roof. Contract awarded to Specht & Sperry, Heed Building.

Weather Bureau Station, Sandy Hook, N. J. Architect, Frank Upman, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and terra cotta, 2 stories, 36x41 feet, composition roof, electric light, hot-water heat, oak floors, weather strips, hollow tile partitions. The lowest bid was submitted by the Altoria Construction Co., 3 West Forty-fourth street, New York City, \$15,770.

Residence and Store, Ventnor, N. J. \$15,000. Architect, Seward G. Dobbins, 116 North Victoria avenue, Ventnor, N. J. Owner, L. C. Maulich, 214 Victoria avenue, Ventnor, N. J. Brick, frame and stucco, 3½ stories, 22x55 feet, slate roof, hot-water heat, electric lighting. Contract awarded to H. G. Seull, Sheen Building, Atlantic City, N. J.

Hygeia Bath (Atl.), Rhode Island avenue and Beach, Atlantic City, N. J. \$3,000. Architect, V. B. Smith, Sheed Building, Atlantic City, N. J. Owner, Bankers' Surety Co.,

Baltimore, M. D. Interior work, marble, tile, electric light, Contract awarded to Clayton E. Shappell, 4803 Ventnor avenue, Atlantic City, N. J.

Store House, Atlantic City, N. J. \$2,280. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owner, City of Atlantic City, care of H. Bacharach, Director, City Hall, Atlantic City, N. J. Brick, 1 story, 40x70 feet, slag roof, electric light, reinforced concrete. Contract awarded to Chris. Murland, Atlantic City, N. J.

Bungalow, Atlantic City, N. J. Architect, R. R. McGoodwin, 34 South Sixteenth street, Philadelphia. Owner, Dr. E. T. Reichert, care of architect. Hollow tile and plaster, 1½ stories, shingle roof, electric light, 25x40 feet. Contract awarded to A. B. Bowen, South Milleage avenue, Atlantic City, N. J.

1915 ESTIMATING CONGRESS.

It is suggested that a congress of architects, engineers, contractors, quantity surveyors, and others interested in the "cost" of construction work be held at the International Panama-Pacific Exposition in 1915. It will, we suppose, be admitted that "cost" is a sufficiently important factor to justify the best methods of ascertaining what it amounts to, whether for a factory or a cathedral, usually the first thing the owner wants to know is what will it cost? The contractor, and the architect, too, are both interested in the answer; the former vitally so, and yet it is well known to be one of the greatest gambles of modern times. It is a question, in the writer's mind, whether we ought not all to be indicted for conducting a lottery.—"Quantity Surveyor."

THE QUANTITY SYSTEM OF ESTIMATING

Method of Estimating for Building Contractors as Practised in England— Some Comments of Special Interest

At the present time no large building contract in England would be entered into, unless quantities were provided. At one time builders putting in bids took off their own quantities, for the position of quantity surveyor was unknown, but with the advent of the system of competitive estimating, which is now the almost universal one employed, quantities had to be taken off to be issued to those desirous of bidding, as it was impossible to let all the contractors see the plans or contract drawings at one time. At first the person taking off the quantities was employed or appointed by the competing contractors among themselves, but this system lent itself to collusion, so that it ended by the architect appointing the quantity surveyor, and that is the position at the present time.

The Bill of Quantities.

The bill of quantities is, as far as possible, a correct list of the quantities of labor and materials or works necessary to carry out the construction as shown upon the plans and other drawings prepared by the architect. These quantities are entered into a form in which they are left, as a general rule, in the denomination in which it is easiest for the contractor to figure, the columns being headed yards, feet, tons, etc., just as the case may be. After these columns comes the descriptive one in which is entered a brief, yet accurate, description of the work to which the quantities refer. Then follows a rate column in which the contractor enters his price to execute that particular item of work at per unit of work; and the last three columns are the ones in which the contractor extends the price for the work described for the full quantities entered in the previous columns. The price for the whole of the work shown on the drawings is reached by the addition of these last three columns and constitutes the amount of the bid.

Prices Strictly Competitive.

As each contractor has had exactly the same information, the prices become strictly competitive, and it is noticeable among the best class of contractors that the differences between the amounts of their bids are on large works very small, these being generally traceable to peculiar facilities for executing certain parts of the work, as plant standing idle, against other firms having to buy, facilities for transportation, stocks on hand, etc.

The quantities may or may not form part of the contract; in fact, whether they do so or not depends on the nature of the contract, but as a means of giving to contractors, identical information so that they all stand on the same footing when bidding quantities are generally issued and some firms will refuse to tender if they are not supplied.

When only a lump-sum-price contract is required, the specifications and plans, etc., show all the work involved. If quantities are issued in this instance it is only that all contractors competing can estimate on the same basis.

If, however, the lump-sum-price contract provides for alterations; that is, variations on the drawings originally furnished, then the bills of quantities become necessary as part of the contract, as it can be stipulated that the additions or omissions are to be priced at the unit rates for the work described or entered in the bills of quantities, which last practically becomes a schedule to apply.

A Third Kind of Contract.

A third kind of contract is that in which, although plans, specification and bills of quantities are provided and all form part of the contract documents, the whole of the work executed is measured up at completion and prices at the unit rates entered by the contractor in the bills of quantities. In this case the bills of quantities produce tender prices for comparison only in determining who is to be the successful bidder.

It is, however, conceivable that works in the first two kinds of contract may be executed for which no descriptions, either of labor only, or labor and materials, have been given in the contract bills of quantities, and which will consequently have to be executed as "time and material." To meet this contingency a "schedule of rates of labor in day work" is generally made a fourth contract document, the materials being prices from receipted accounts produced by the contractor, or from a further "schedule of prices for materials in day work."

In the third class of contract it is as well if the quantity surveyor, who originally took off the quantities, acts on one side, either for the building owner or the contractor, as he will know the system upon which they were taken.

The bills of quantities are prepared by men who have made a specialty of this class of work and who are termed "Quantity Surveyors."

Qualifications of Quantity Surveyors.

In addition to having a sound knowledge of practical construction, the quantity surveyor must be well versed in current prices of materials and in the quantities of materials required to execute a certain amount of work, so as to be able to readily deduce a price for work not exactly in agreement with the wording of the description given in the original quantities. This will be imperative when dealing with day-work accounts, for it is very often found that the amounts of materials entered on contractors' day-sheets bear no semblance of proportion to the time charg-

ed or vice versa. This knowledge is also essential when the contract provides for the valuation of executed work, differing slightly from that described in the original bills of quantities to be made at rates proportionate to the prices appended in the bills, and this is included as a clause in one form of contract issued by the Royal Institute of British Architects.

The position then of a Quantity Surveyor is one of importance and of trust, as the builder relies upon the quantities as provided as being accurate and containing truthful measurements and descriptions of the work to be executed. The architect bears the responsibility of selecting the quantity surveyor and relies upon him in the same way as does the builder; and both together with the building owner rely upon him adjusting the variations impartially—the builder that he is paid for all he has provided, while the building owner expects him to see that he has credit for every deduction, and is only charged for that actually executed.

Advantages of Owner and Builder.

The advantages of providing quantities are manifest, both to building owner and builder alike. The building owner knows exactly what he is going to be called upon to expend before he pays out a penny, and where variations are necessary, a very close, if not exact, estimate of the cost of such can be obtained by the architect (or the quantity surveyor) preparing an estimate of the cost from the appended prices in the priced bills, though whether this is a wise practice is open to comment.

He can, by keeping a careful check or watch on the items in the bills of quantities, perceive quite early if an item has been under-measured, so that he can call attention to the shortage, and obtain the necessary written order for the "extra."

Incidentally it might be mentioned that some builders provide their foreman with un-priced copies of the bills of quantities, in order that they in their turn may watch for under-measured items, and also to act as a check upon their own orders for materials before sending them to the builder's office. It is a fallacy and a slur upon a painstaking class of men to say that where blank bills of quantities are issued to foremen, that they order directly from them, instead of merely checking their orders from them, though this is an excuse often given by builders for not providing them.

The system followed in taking off quantities is not universal in Great Britain, as that followed in Manchester, Glasgow and other large towns differs in some respects from that followed in London, but the differences are of no great moment. In some cases they are a necessity on account of the different system of estimating prevailing in various parts of the country; for whereas in London and the Southern countries it is usual to have only one contractor for the several trades, in the Northern countries it is quite common to have separate contractors for each trade or each class of trades—one taking, say, the excavation, concrete, brickwork and masonry, an-

other the plumbing, glazing and painting, and so on.

Accuracy Essential to the Contractor.

No matter what system is followed, it is essential that the information given to the contractor in the bill be implicit, yet concise in description, with the work so measured that the estimator can readily price them, and at the same time such that the priced items form a schedule at which to price work in detail. For example, it is not quantity surveying to amalgamate, say, digging to foundation trenches, including planking and strutting and concrete, all in one item, as this would mean the contractor giving a unit price for all three items as one; but the digging, the planking and strutting and the concrete must all be measured and entered in the bill separately, so as to give a unit price for each of them. In the case of quantities prepared on this incorrect method, how is the surveyor to know what price to allow for the several operations?

Several Men Necessary on Large Jobs.

It will readily be seen that it will not be possible on a large job for one man to take off the whole of the quantities, as such a procedure would cause a long time to elapse between the date of the completion of the contract drawings and the date upon which bids could be asked for on the quantities provided; so an "order of taking off" has to be maintained under several sub-headings, so that one taker-off, A, knows exactly what another taker-off, B, will take off under one sub-heading, with the result that B can be taking off work, say, under "Roofs," while A is rearing with "Floors," and so on, and so the whole of the measurements of the several works even on a large job can be taken off by a few skilled quantity surveyors in quite a short space of time.

The most common practice in London is to divide the work into two main headings, "Shell of Building" and "Finishings," each having sub-headings under them, and it is incumbent upon each surveyor knowing the items in each one, so as to avoid duplication. This knowledge of "the order of taking off" is soon acquired.

A knowledge of quantity surveying is now recognized in England as an essential qualification for architect's assistants, clerks of works and foremen, not that any one of them should ever at any time act professionally as a quantity surveyor, for that is best left to men who make it their especial profession, but that they may make the best use of such bills of quantities as come their way in the course of their ordinary duties.

The Matter of Extras.

With quantities forming part of a contract as previously mentioned—and this is the most common form of contract in London—the builder and his foreman, if they understand quantities know at once when an "extra" is being asked for, as they do not rely upon an oftentimes badly worded specification and none-too-clear drawings; nor can the architect impose upon them, by furnishing full size details of work differing from that intended or shown on the smaller scale contract drawings.—G. Metson in "Building Age."

THE PALACE OF INTERNATIONAL PEACE

"It was early morning when first I saw the Palace of Peace on the day of the dedication exercises," said my friend at the other end of the wire, struggling patiently with my insatiable desire for facts. "The air was melodious with the chimes of the neighboring towers of the Old Church and the New. The bells of the palace had remained silent after the merry salute at sunrise, following the big guns in the distance. Although it was early, the crowd was beginning to assemble, crowding the roadways. The Palace stands in the thickly wooded royal park of Floris V on the famous old road leading from The Hague to Scheveningen. You ask about the color. Why, this is Holland, the land of color, the land of the great masters! The sun had but just enlivened the scene and the Palace was enshrouded, literally it was bathed in a cool blanketing of silver-gray mist blown in from the North Sea, as is so frequent, so that it was no easy task to define the exact color tone of anything. I cannot say. I can better describe the temper, the excitement, the enthusiasm of the occasion. I recall vividly one very definite impression, that it was a building of more than ordinary interest in many ways, not only large and not exactly modern, but very human and distinctly unusual in its appeal. Here, in brief, was a building of to-day, up-to-date, and yet we are told that out of the two hundred or more plans submitted, this design by Mr. Cordonnier of Lille won the prize largely because with all its modernity, its great assemblage of rooms skilfully planned, it has so unmistakable a flavor, if I may so say, of old Dutch architecture of the domestic type with which every visitor to The Netherlands is familiar. By the way, I told you that the plans of Mr. Cordonnier were passed over to Mr. J. S. G. van der Steur, of Haarlem, and that it is largely to his superintendency and manipulation that the present building is erected and made interesting. The plan is excellent, and when I say that, I say a great deal, for it is the plan that tells in these great public buildings. It has a great central court. It is a brick building with stone trimmings. Marble, tile, bronze, mosaic, painted glass windows of many countries have been used. I recall the effect as a whole with great pleasure and as a memory of some of the old paintings familiar to most of us. I had visited two or three of the minor galleries only a few days before, so the paintings of Frank Hals, of Rembrandt, of Maes, Paul Potter and Van Dyck were vividly before me. And Reuben's paintings I knew before.

"Outside the Palace was bright and cheerful. Within it is very rich and full of color and yet low in tone. Much of it is magnificent. Everywhere there seemed, with all its harmony, an amusing competition, as it were, between the marbles and the ceramic lining

the walls of the passages, the stairways and the corridors. I remember the pavements of the main halls because they were very beautiful and had an interlacing pattern of mosaic with white marble and the vaulting is a light, warm gray, and for the rest I think I must refer you to the views."

From other sources and on other occasions I have been able to gather facts regarding the surroundings of the building. The woods flanking the old road leading to The Hague are old. Many of the trees forming the avenues were planted about the time of the Boston Tea Party of memorable history. These woods make a delightful surrounding for the Peace Palace, bringing into contrast the low red tone of the walling, the exalted roof, the white of the trimmings and of the terraces and the gorgeous red and orange which characterize the flowers of the sunken garden. The road also connects with the ancient portion of Scheveningen and the modern part, which is not unlike our Atlantic City, with its wonderful beach and sand dunes. The building recalls many characteristics of older town houses and churches of the surrounding country without being in any way a reproduction. The designer is doubtless indebted for many certain distinctive features. He has studied closely the curiously picturesque outlines, the gables, the crow-step parapets and battlemented eaves, the method of constructing arcades, the over-hanging turrets, the chimney lines and the openings everywhere. Probably he knew something of the town houses at Gonda and Middleburg. He can scarcely have been indifferent to the battlements of the towering Gothic gateway at Zwolle or Weigh-house at Alkmaar, which is lofty and narrow, but singularly pleasing and not likely to be readily forgotten. The Harbor house at Hoorn is another picturesque feature which may, in some way, have had a place in his memory.

The roof line is remarkable. It is an exalted, highly pitched roof in proportion to its dignified frontage and very well broken up in places for the admission of light. These little dormer windows, of course, are distinctly of the Netherlands, a peculiar little architectural entirety of its own which is to be seen reflected in the canals in every section of the country. There is an interesting fleche in the main ridge. The building is said to contain three hundred rooms for various purposes. There is a wonderful grand staircase with several subsidiary means of reaching the upper stories, many rooms for conference, a great Hall of Justice and, of course, a law library. There are numerous waiting and ante-rooms leading from the main corridors and hallways, the decorative treatment of which is unusually stimulating and diversified. The walls of the great hall are lined with oak and the ceiling is coffered but to the wall, floor and ceiling treatment

of the passageways, a color scheme wherein marble ceramics and lusters compete in friendly harmony, invites considerable attention. Here, obviously, is the antechamber for the great public through which they pass, in which they linger, and in this well determined, well axed centre of things is an interesting object lesson, an amalgam of materials.

Granite blocks came from the Scandinavian people, and the richly glowing marbles from Italy and Greece. The crowd presses in between wrought metal gates and doors, the product of the craftsmen of Germany and Belgium. It is to France that we are indebted for the tapestries which occupy prominent places, on some of the walls, and to Japan for the silks. The light comes in through windows shaped in many ways by delicate fretwork of lead which was made in Great Britain and painted in the Netherlands, and Brazil contributed the satinwood which lines some of the walls of the minor rooms and is the material of some of the furniture. The water which vitalizes the central court is from a fountain sent from Denmark. And as if realizing the wondrous change in the crust of Mother Earth, the United States, South America, Sweden and Russia, as well as Germany and Austria, have been called upon for marble. Of course, the burden of the building rests upon brick from the clay of Holland, and rests securely, and the burden of the decoration rests upon the clays of Holland and upon the craftsmanship, chemical knowledge and traditions of Holland. And the human courtesy and quaint manners, the broad understanding, patience and endurance rests also upon those who, for generations, have lived within the low-lying district flanked by the Northern Sea and forming a cup for the Zuider Zee. Was it not to the swift ships of the progressive Dutch, the sea rovers laying wait for rich Spanish and Portuguese galleys and ships from the Orient, that the lovers of ceramics and faience and wondrous delftware are indebted? Does not every student of the craft recall with delight the formation of the Guild of St. Luke, which numbered among its members and painters, glass workers, engravers, porters, weavers, embroiderers, sculptors and printers, as a fraternity worthy of inestimable esteem.

One of the most stimulating things about the amalgam of materials which paves, walls, and groins, the passageways, this informal but very delightful co-partnership between highly colored marbles and ceramics, this picture painting in which some of the primary mosaics of Venice and the lost arts of China have a place, is that it is still possible to-day, with all the rush and scurry of the world's awakening, that it once again returns to clay as an agent for color and rests there with pleasure, profit and delight.

Goethe is said to have advised Rembrandt to begin at home, then then, if possible, take in the world. Every student of the Renaissance knows how sincerely this has been followed, and every skilful, observing, discriminating visitor to the Peace Palace must

realize how well this advice from the poet to the painter has been followed. Look, for instance, at the sympathetic connection between the materials. I keep repeating this and make no apology for the repetition. It is unusual. It is brim full of common sense—the square deal once again. It is one of the illustrations of a practical kind where co-partnership leads to good results. Note the walling to the main corridors, the method whereby it is sub-divided, recalling in the main the outline of the arches. It is a blank arcading carried out in ceramics and stone and marble. See how well they go together, each one respecting the privileges of the other but maintaining sturdily its own independence. The marble base is big, with a broad, liberal surface, displaying

wonderful markings, gorgeous color and remarkable transparency; the stone, quiet, earnest, as if realizing that its function in life is to bear its portion of the burden of the building without calling attention to itself. The ceramic border and field is much more human. It is wayward. Is it not a product of man?

In no sense can this building be spoken of as a marble palace. It is an international palace built in the fond hope that this would cherish within its boundaries sufficient human love to extinguish the flames of war, as suggested by a legend in the passageway. Here even the rights of the material have been respected to the full. Hence its charm, interest, individuality.—Leslie Fielding, in "The House Beautiful."

QUANTITIES AND QUANTITY ESTIMATING

A Bit of Satire Touching Some Pet Hobbies Which Broad-Minded Architects Cannot Fail to Appreciate.

With feelings of surprise, horror and shame, I read the article by Sullivan W. Jones, which appeared under the above title in the December issue of "The Building Age," writes Leroy Kern to that magazine. The surprise was at the article being published; the horror was at the thought of what would happen to us architects if the public should begin to require us to show and specify neither more nor less than we meant for the low bidder to furnish—the shame was that a member of our most honorable profession should cast aspersions on its most sacred, revered and time-honored traditions.

Written by Prominent Architect.

Had the article been written by some practically unknown architect we could have treated it with silent contempt. This, however, was not the case. It was written by a member of one of the leading architectural firms in the country, and might possibly be read by some of our clients. If it is, then we are ruined forever.

It would not have been nearly so bad if he had merely hinted in general terms something to the effect that there might possibly be some slight chance for a little improvement or rather change in some of the details of the way that in some places the building game was being conducted. No one then would have paid a particle of attention to it; we could have said to ourselves that it does not apply to us personally and would have regretted that there was no way to rid the profession of those incompetent members.

He, however, not only states that our drawings are unintelligible and lacking in pertinent information, but (shades of our forefathers, what are we coming to) that our specifications are rubbish.

In its fundamentals this specification is the same in all architects' offices. It has been handed down from office to office and from father to son for untold generations. Per-

sonally I believe forever. It has been copied millions upon millions of times, but never written. Some one, though, must have written the first one, unless "in the beginning" it was created.

Specifications Still in Original Form.

Trade unions have come into existence, new materials have been put on the market, new methods of construction have been advanced, but in spite of all this we have been able to preserve our specification in practically its original form. Should anything in the world be held in more veneration? Why even to hint that it might be changed a little should be regarded as worse than any known criminal offense. What, then, shall we do to one of our own profession and one who ought to know what he is talking about when he says that our specifications are rubbish?

What difference does it make to us that the courts of law do not uphold our General Conditions? Some day some archaeologist will dig up the original signed contract copy of the specifications for the oldest pyramid. It will be well for him, however, to have his find witnessed by several disinterested parties of unquestioned veracity, for otherwise he will most assuredly be accused of having translated into Egyptian the greater part of a modern specification.

When this find is made it will be indisputable proof that all buildings that ever had any specifications had the same general conditions, standard clauses, and said the same nasty things about what they were going to do to the contractor in case he made an error or failed to correct all the architect's errors. With this original document to back us up we ought to be able to have the laws changed to fit our specifications.

In place of the contractor being pessimistic about any change it seems to me that his position is about the same as that of the

(Continued on page 101.)

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Editorial Comment

"Buildings and Building Management" characterizes as "stupid silliness"—whatever that may be!—certain recent editorial utterances of "The Guide" concerning building managers and their "profession." The trouble with "Buildings and Building Management" is a disposition to take both itself and the near-profession it espouses entirely too seriously. A building manager who knows his business—and there aren't fifty in the United States—is, we have always contended, a first-class business proposition for the owner of an office building to hook up with. He is likely to know some things about laying out an office building that will save money when the thing gets to going, and should prove a handy man to have about when supplies are being ordered and employes are being schooled in the duties to which they are to be assigned.

There are however, building managers and managers of buildings. And many of the gentlemen who claim to be both happen to be neither. Mr. Lengel, who has been doing editorials for "Buildings and Building Management" seems to have been much peeved by "The Guide's" remarks, so much so, that his English becomes Lengelish and his humor gouty and ineffective. Mr. Lengel winds up, indeed, in a sea of bathos about his departure from editorial work to a nebulous and misty something else which he hints will surprise us. May we assure Mr. Lengel that it will not? There is, as Mr. Lengel should know, no real limit to aspiration!

* * *

All over the country the builder's exchange idea is taking root and sending up leaves of promise and vigor. Here in Philadelphia an exchange with every essential necessary to the complete success of such an institution is slowly dying of dry rot. What's wrong with the local exchange, or, rather what's wrong with the directorate that permits to go on unhindered from year to year the same old foggy unenterprising and slipshod system of running the place. Moved to a more central location, housed in roomier quarters and placed under the direction of a man with brains, energy and initiative the Philadelphia Builders' Exchange can be made the leading organization of its kind in the United States. "The Guide" would like to see the Exchange made a live, aggressive, potential force in the community. Philadelphia will some day emulate the example of New York City by erecting an Architectural Building, in which shall be housed all of the various factors that enter into the construction of buildings. A feature of this building when it eventuates should be a builders' exchange and exhibit,—a live wire affair handled by men who know how and standing for something in the trade, in

the profession and in the community-at-large.

* * *

General feeling in the building and allied trades, according to Bradstreets, has improved in sympathy largely with the more cheerful tone of business and the appreciably easier trend of money, but the season of the year is evidently adverse to the projection of new enterprises, because the taking out of permits for new buildings has not expanded, as shown by comparisons of permits and of estimated expenditures with December and January last year. Reports to the journal from eighty-five cities of the country show an aggregate expenditure permitted for of only \$27,460,600 in January, as against \$48,182,595 in December and \$34,546,732 in January, 1913. There is here indicated a decrease of 43 per cent. from December and of 20.5 per cent. from January last year, with only thirty-five cities out of eighty-five showing increases over the like month of 1913.

* * *

The retiring editor of a Western trade magazine refers to his valedictory as a swan song. What is to be said of the musical ear which confesses itself unable to distinguish between the song of a swan and the bray of a quadruped?

* * *

"Architecture and Building" is running a series of humorous sketches "by Tom Thumbtack" dealing with the various questions of architectural interest. From one of the more recent of these captioned "Client vs. Architect" we quote the following:

"We used to say at college that football would be a gentle game if only one side played it. Architecture would be a fine profession if it were not for the clients.

Everybody has heard of the shortcomings of the architect and his general uselessness. Doesn't it make you homesick to hear the familiar boast, "My wife planned our house, but we had Mr. Inigo Jones draw it up for us." or "This house is my idea, but we got my friend, Chris Wren to put in the stairs and chimney," or "I planned the inside and Laura planned the outside, and the only thing Mike Angelo did was to make them fit together." It is therefore demonstrated beyond all peradventure that the architect is, at most, a mere convenience.

Is he even ornamental? Let's put one ear to mother earth and find out what those rumblings mean. You'll note that most artistic criticism is directed toward a neighbor's architect because to criticize one's own after having planned the house oneself is too much of a boomerang. Let us listen to the public. "I don't think Mrs. Buster's architect, Don R. Tello, did just the proper thing in supporting that central overhang on those ironic columns," or "Jones's architect, old

man Richard's son, copied their mausoleum from the cutest little bungalow I showed him in Yeath and Proctor's magazine."

His professional ability doesn't stand even for a second when the public gets after his more vulnerable spot, his real Achilles tendon. We have seen that his is probably neither useful nor ornamental; but he certainly, positively, absolutely, isn't practical!

Beneath this avalanche of unanimous opinion lie hidden all his virtues and there is left protruding through the debris only the tattered banner that "He had ideas." Some day when a small part of the public in my hearing says about a fellow-architect that "he has ideas" I'm going to pull a gun on him and find out what he means. He has ideas! Well, so has a dog, lots of them, more ideas than fleas. So has a pig or he wouldn't get both feet in the trough. So has the early bird or he wouldn't get the worm. Has ideas, forsooth! If he didn't have ideas he would be an idiot. Ideas are all that separate the animal kingdom from the vegetable. No, I won't hold up the rascal who tells me that his architect has got ideas. I'll wait until a smaller man makes that asinine assertion and then I'll hammer the eternal daylights out of him, and when I've got him down and his head firmly planted in the mud I'll lambaste him over his echoing konk to the tune, "Why don't you get an idea of your own?"

But I digress!

The whole known world damns us with the word impractical. With the frequency of drops of water which will wear out the hardest stone your brain has been corrugated with Mr. Newcamp's remark that his forty-thousand-dollar bungalow is all right, but the impractical front door sticks; or Mr. Newfactory's job is a good piece of construction, but the impractical plaster has cracked for more than a foot right over his desk; or Mr. New-Palace is greatly pleased with everything except that the water freezes every winter in the impractical Italian fountain; or Mrs. Littlehack didn't get a practical door knob; or Mrs. Tinybrain got a most impractical kitchen sink.

You have us dead to right, oh clients! You have plausibly contended that the profession is probably neither useful nor ornamental, and you have demonstrated that it is impractical. How about yourselves? You and your friends around the festal board of your new home have hugely joked about your architect. Don't you suppose he ever laughed at you? Hasn't it occurred to you that he may have gone back to his office and caused a gentle ripple of amusement because you wanted to back the kitchen range up against the ice box or because you and wifey fought like a cat and dog over the wall paper before you'd even bought a lot?"

* * *

There is more of it, more than we can find space for here and quite as good as the excerpt given. The architect who fails to read these Thumbtack Sketches is missing something eminently worth while. The author

has a real sense of humor and he knows what he is talking about. Look up these architectural sketches. You'll get a good laugh out of the worst of them.

* * *

The man who stops his advertising "because business is dull" is doing everything than one man can do to make business dull. Men who know how to advertise know that if there is ever a time when advertising is vitally necessary to a business it is when general conditions are not at their best. The man who advertises consistently through the dull season, as a rule, has no dull season. His enterprise keeps the dull season up to the usual average and makes the busy season a continual hustle. The man who stops advertising "because business is dull," to be consistent, shouldn't advertise at all because when business is good he doesn't need the advertising.

QUANTITIES AND QUANTITY ESTIMATING.

(Continued from page 99.)

blacksmith who when asked why he allowed his wife to beat him replied that it did not hurt him and it amused her.

The Pleasure of the Architect.

The only pleasure the architect has in life is reading his General Conditions and blanket clauses to his new client. The contractor, if present at this reading, never raises his eyes and appears to be suffering some great mental anguish. He does not really feel that way. He knows that the architect does not mean a word of it. That is the way he is expected to look, and it would spoil the effect of the whole thing if he did not look that way.

In the subject matter proper of the average specification there have been some changes made from year to year. To what extent these are due to inaccurate copying I am unable to say. I am convinced, however, that this is not the reason for them all. Some have been made in an honest effort to show the bidder that the architect really thought he wanted this or that particular thing done this or that way. I have heard that in some instances this has been found to be a help to the bidder. However, I am afraid that they have often prevented his being awarded the work by raising the question of doubt in his mind as to the other requirements.

As for the change to the Quantity Estimator, as suggested by Mr. Jones, I am not sufficiently well posted to express an opinion, but on the face of things it looks as though it would be a vast improvement, especially for the smaller offices. Of one thing, however, I am certain, and that is that it could not possibly be any worse.—Leroy E. Kern, Architect, in "Building Age."

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

WAGES IN BUILDING TRADES IN 1914.

The United Board of Business Agents of the Building Trades of Manhattan and Vicinity has just issued the schedule showing prevailing rates of wages in various branches of the industry for 1914, and we present those most likely to interest our readers. The schedule is based on eight hours' work per day, except on Saturday, when work ceases at noon. Compensation for a practical foreman ranges from 50 cents to \$1.00 a day over and above the schedule as here given.

All recognized legal holidays and Sundays are to be figured at "double time."

Asbestos workers, boiler felters, pipe coverers, insulators	\$4.75
Asbestos workers' helpers	3.00
Blue stone cutters, flaggers, bridge and curb setters	4.50
Blue stone cutters' helpers	3.00
Bricklayers	6.00
Bricklayers' helpers	3.00
Carpenters and framers	5.00
Cabinetmakers	5.00
Cement and concrete masons	5.00
Cement, concrete and asphalt laborers.....	3.00
Derrickmen and riggers	4.00
Decorators and gilders	4.50
Decorative art glass workers	5.00
Elevator constructors	5.28
Elevator constructors' helpers	3.40
Electrical workers	4.85
Electricians' helpers	2.20
Electrical fixture workers	4.80
Engineers, stationary	4.50
Engineers, portable hoisting, etc., \$30.25 weekly; by the days	6.00
Framers	5.00
Granite cutters, \$5.00 yard; bridge.....	5.50
House shorers, movers, sheet pilers.....	3.75
House shorers' helpers	2.65
Housesmiths and bridgemen	5.00
Ironworkers	5.00
Ironworkers' helpers	3.50
Ironworkers' apprentices	3.00
Metallic lathers	5.00
Marble cutters and setters	5.50
Marble carvers	6.00
Marble polishers	4.40
Marble sawyers	4.65
Marble bed rubbers	4.90
Marble cutters' helpers, \$3.25; rigging and crane operators	3.75
Mosaic workers	4.50
Mosaic workers' helpers	3.00
Machine stone workers	4.00
Plate and sheet glass glaziers	3.50
Plasterers, plain and ornamental	5.50
Plasterer modelers	\$30 to \$100 weekly
Plasterers' laborers	3.25
Plumbers and gas fitters	5.50
Painters	4.00
Painter-decorator, painter-striper, painter-gilder. 4.50	
Painter-letterer, painter-grainer, painter-varnisher 4.50	
Roofers, tar, felt, composition, damp and water-proofers	4.25..
Rockmen	2.50
Sheet metal workers, metal roofers.....	5.00
Slate and tile roofers	5.00
Steam, hot water and general pipe fitters.....	5.50
Steam fitters' helpers	3.00
Tile layers	5.50
Tile layers' helpers	3.25
Upholsterers	4.50
Varnishers	4.00
Wood lathers on new work, \$3.50 per M.; over-hauling jobs	5.00

In a few cases rates quoted involve a slight advance which went into effect on the

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first of the current year. For example bricklayers' wages were advanced from \$5.60 to \$6.00 per day, stone setters from \$5.60 to \$6.00 per day, and electrical workers from \$4.50 to \$4.80 per day.

ARCHITECTURAL CHARM.

Charm in architecture is a unique quality which is not inherent in any material or treatment. It is not characteristic of any type of building and it may not be created by rules formulated in schools, says "Construction Details." It does not even seem always to follow the work of any individual. Rather it is found in the happy co-operation between the building, its natural surrounding, its uses, and the personality of the architect in touch with that of his client. A building, like a person, may have marked individuality and still lack charm. It is the softening happy element that lends charm. One is unconsciously cheered on coming under its influence. The element of the picturesque or a chance bit of natural surrounding, often make a charming effect, even in a crude building, but charm is found also in the monumental building, in the fountain, in the treatment of the details or the decoration.

It is elusive, but none the less real. Ye, we hear very little of its being studied in a definite way. Why should not all buildings have charm, in some small degree, at least? It is a legitimate goal for effort. Surely, it would be found more often if it were thoughtfully sought. It seems the expression of joy in labor. It bespeaks the pleasure of the artist in his design.

Some big guns are smooth bores.—Ex.

Don't knock. Boost! Don't grouch. Smile! Don't mope. Advertise!

APPLICATION OF TILE TO CONCRETE.

The intensely practical advantages of concrete have so impressed themselves upon the public that there is no longer any question as to its use from that point of view. The beauty and treatment of concrete surfaces, because of this utilitarian development, have not received the important study warranted by the nature of the material. A few authorities advocate leaving concrete surfaces just as they are when the rough forms are removed. However meritorious this may be, the majority of architects look upon concrete as a material which from its very nature gives a most extended opportunity in surface decoration and color. Architecture in stone is essentially dependent upon architectural lines—shade and shadow—whereas architecture in brick or concrete is dependent upon the actual treatment of their surfaces for their character and effect.

From this viewpoint, which is that of the majority of architects, any material enriching the surface of a concrete wall without interfering with its structural strength is possible and worthy of consideration. Of stone, brick pigments and tile, the latter is, undoubtedly, best adaptable because of its beauty and extreme simplicity in application. In France, Italy and America, the application of tile to concrete surfaces has been considerably exploited, so that many actual examples exist upon which to base an opinion as to the effect produced. From these and from the general principles of design involved, it may be seen that extreme accuracy of tile setting as we know the material in general use is harmful to fine effects and not to be desired. Concrete, especially for exterior use, should be sufficiently rough and uneven to insure artistic surface modeling when seen from a considerable distance. This necessitates a free and varied treatment of any tile applied to it, both as to setting and as to coloring. The color of the concrete itself, in the main, determines the color scheme of such tiles as are applied to it. Rough and deeply colored tiles are found to blend most easily with the rough surface of the concrete although it can easily be imagined how certain bands or spots in tile could be both highly colored and finished to bring out accents sought after by the designer.

Especially in country house work the application of tile must be concentrated largely because of the costliness of entirely covering the concrete. As a matter of effect, from an artist's point of view, what a concrete surface needs is contrast with some material which is more refined and decorative than itself. Panels, band courses or scattered designs in tiles so long as they do not become all over patterns, seem particularly advisable in this kind of work. As much depends upon concentrating this decoration as does upon an intelligent selection of colors and an artistic placing of the individual tiles. Without doubt there can be no limit to the ways in which tile employed in this way may be treated. Practically any size and shape, any

color, any surface are being manufactured continually, and along with this molding and special colors and combinations may be obtained, provided the manufacturer considers the amount to be ordered as warranting him to produce special ideas in this way.

In fact, a rather new and certainly delightful avenue of designs has been opened to the architect by the increasing prominence of concrete and its allied arts and materials. —"Mantel Monthly."

ERECTING STAGING.

Not infrequently injuries are caused to workmen about construction work through the failure of staging, which often results in expensive suits and loss to the employers. A partial remedy at least may be afforded for this by care in the design of the staging, that is making it an office proposition and not a haphazard matter in the hands of the workmen on the job. All staging for any important work should be designed in the office. It should be laid out with given dimensions and spacing for lumber, the size of lumber and with directions for the proper nailing. Together with this, the maximum safe load for the staging should be figured and the staging labeled for its capacity. The material used in erecting stages or false work of any character should be inspected and selected by the superintendent or some other competent person. While this method involves considerable time and labor on the part of the employers, it is nevertheless a means of insurance and its cost should be charged up in this manner.

WHEN A FIRE BRICK WILL MELT.

According to the United States Bureau of Standards, the melting points of fire brick are as follows: The most common fire brick, or those made of clay of which the main ingredient is kaolin, will melt at a temperature ranging from 2,831 to 3,137 degrees F.; bauxite brick, from 2,949 to 3,245 degrees; silica brick, from 3,092 to 3,101 degrees; chromite brick, at 3,722 degrees, and magnesia brick, at 4,929 degrees. These melting points, which represent the lowest temperature at which a small piece of the brick could be distinctly seen to flow, were determined in an electric vacuum furnace, the temperature being measured with an optical pyrometer.

SOME FACTS ABOUT GRANITE.

Granite is two and two-thirds times as heavy as water; its specific gravity is 2.663. A cubic yard of granite weighs exactly three-quarters of a ton. The strength is tremendous, although the different granites vary greatly. Poor granites will withstand a pressure of 18,000 pounds to the square inch. Good, close-grained granite will withstand 30,000 pounds; but certain Wisconsin granites have withstood a crushing pressure of 43,973 pounds to the square inch—22 tons weight resting on a tiny cube of stone not much larger than a lump of sugar.



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PLACING A CONTRACT.

Placing a building contract with the lowest bidder may seem to many a good stroke of business and a money saver. Many home builders can testify that on the contrary it has been a very costly experiment. Lot owners deciding to build, should first inform themselves on the building laws and the obligations they assume when letting a building contract to an irresponsible person. They would learn that if any labor remains unpaid, also building material used in the construction of the house, that labor and material liens will compel them to pay the same or their lot and house will be sold to satisfy the liens.

Position of the Builder.

It makes no difference if the builder has already received the full sum for which he contracted to build the house—the owner must pay all unpaid labor and material bills. Common sense and good business judgment should prove to everyone that when an irresponsible builder or carpenter who works for wages offers to build a \$5000 or \$6000 home for \$1500 less than a large successful building company will do the work, there is something wrong somewhere.

The irresponsible builder has nothing to lose and is always assured of good wages and a good profit. He can name almost any price to secure the job and put it so low that no responsible concern can compete. All he wants is the contract. He can soon get enough cash advanced to take care of his profit and wages.

If, before the house is completed, the lot owner finds that he has already paid out as much as the finished house was to cost him, the shoestring contractor explains that he made a mistake in estimating—forgot to figure the doors or the windows or an entire floor, etc.—that no one could build a house for that price and that he will do his best to complete it as cheaply as possible. If the owner turns it over to someone else, it would cost him still more money.

The Owner of the Lot.

The lot owner has absolutely no recourse and protection, for the builder has no financial responsibility and is practically judgment proof. Consequently, he is compelled to put up the necessary additional money to complete the job and the \$3500 house costs \$6000, and is perhaps a poor job at that.

The only way a builder can protect himself against these irresponsible contractors who explain their ability to figure so low a price because of their having no overhead expenses, etc., is by demanding a "builders' bond." This would promptly eliminate this class of bidders, and if the bond is furnished, it will protect the home builder against liens of any kind and would guarantee him the fulfillment of the contract as per specifications for the stipulated price.

Importance of a Building Bond.

It is therefore of the greatest importance that everyone who desires to erect a building of any kind on a lot owned by himself,

that he demand a building bond from any contractor of whose financial standing he is not absolutely sure.

It is not so much a question, who will make the lowest bid? But what is the real value the finished house will represent? What is the workmanship and material that is going into it? Will the house be delivered for the contract price?

When a responsible builder agrees to erect any kind of a building for a certain price and according to certain specifications, he must do just as he has agreed, for he cannot only be forced to deliver the house as per contract, but he has a reputation to sustain.

He realizes that thoroughly satisfied customers are his best assets and a lasting advertisement. The irresponsible builder is simply after regular wages and a little profit and does not worry if he gets into trouble on a job, for as soon as he leaves it, his identity is lost, and if he cannot get another job to figure on for a while, he will work for some responsible building contractor until he can get in on another on the same basis.—Edward J. Kuegeman, in "Building Age."

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

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That's the sum and substance of service. That's the whole thing in life.

When you can put on your hat and coat and walk out of the door—actually knowing that you have done your best, your sleep to-night will be wholesome and your prospects good for to-morrow.

Keep this up. It's mortal man's biggest ideal.

Your best to-morrow may make to-day look pale.

And it may not.

But whatever comes or goes, whoever makes the big sales and the little sales, whichever clerk springs the brightest ideas or makes the most effective display, you—you in your heart feel that you have put your best thought and your best energy into the work of to-day and that makes you a man among men.

UNION TO FIGHT CONCRETE CONSTRUCTION.

Members of the International Bricklayers' and Stonemasons' Union of America declare that many hundred of thousands of dollars will be spent by the union to promote brick construction instead of concrete masonry where either type would answer the purpose. A large fund is said to have been set aside for this use. Part of the plan of the campaign proposed is to help finance clay product manufacturing plants wherever there is a strong tendency toward the use of concrete instead. It is proposed to erect the first plant at El Paso, Tex. It is claimed that \$250,000 has already been voted by the international union for this purpose.—"Engineering Record."

PRODUCTION OF PORTLAND CEMENT.

According to returns received by the United States Geological Survey up to January 12, the quantity of Portland cement made in the United States in 1913 was approximately 92,406,000 barrels compared with 82,438,096 barrels in 1912. The estimated shipments of cement in 1913 were 88,853,000 barrels compared with 85,012,556 barrels in the year 1912.

AN ARCHITECTURAL DETAIL.

The Owner—"In my new house I want a simple breakfast room in addition to the more elaborate dining room."

The Architect—"I see. What you want is an oatmeal mush room and a grilled mush-room room."

PROVIDENT.

Her Pater—"Young man, what prospects have you?"

Reggie—"W-why sir, I've got almost enough cigarette coupons saved up to furnish a flat!"

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All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

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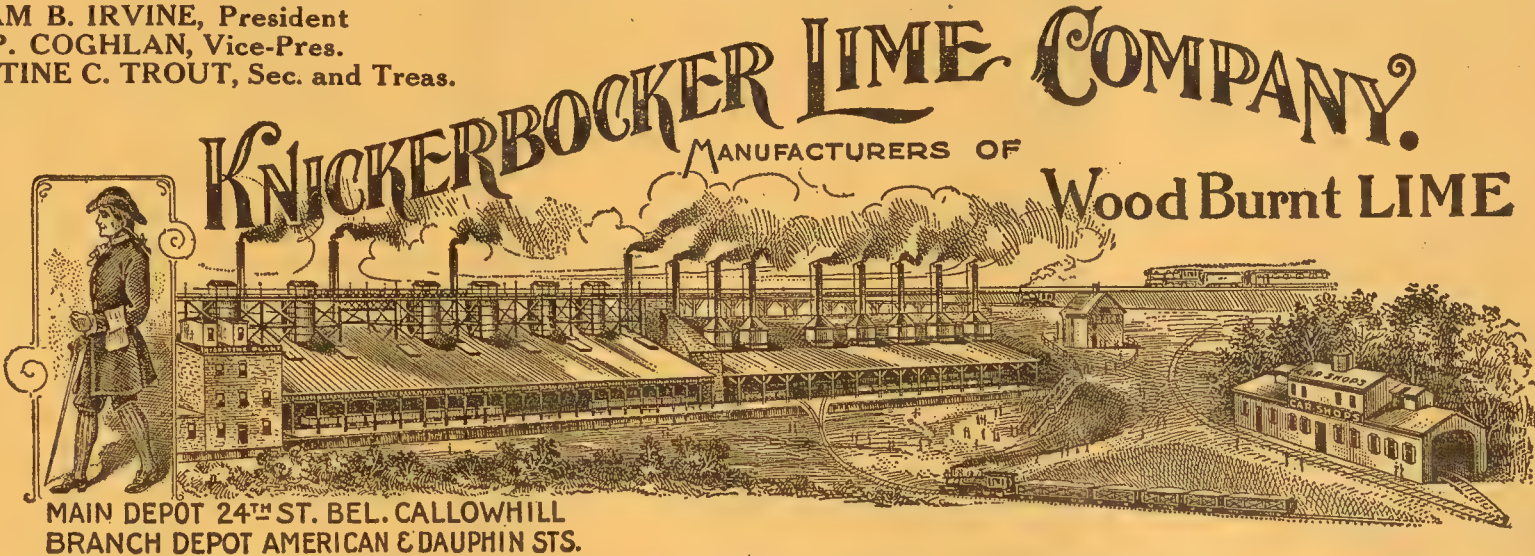
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Vol. XXIX., No. 7.

PHILADELPHIA, WEDNESDAY, FEBRUARY 18, 1914.

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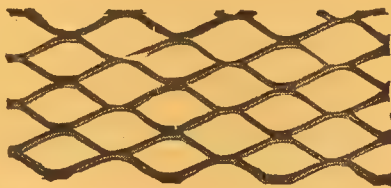


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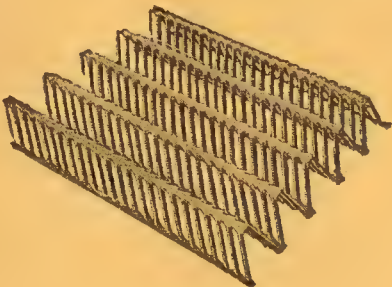
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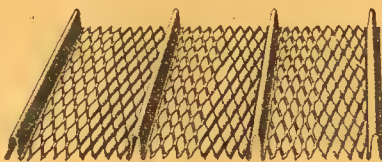


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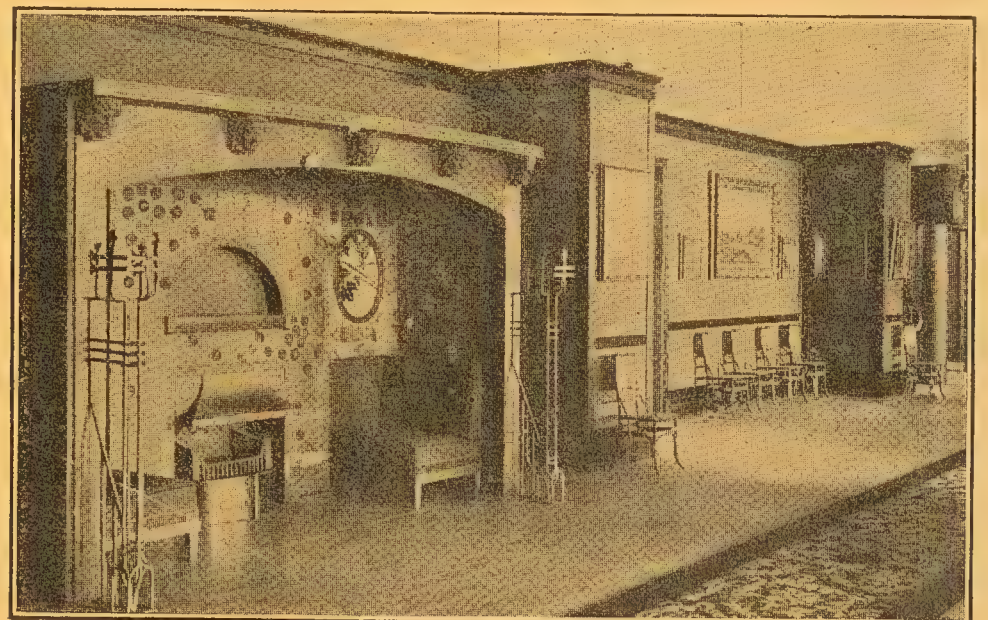
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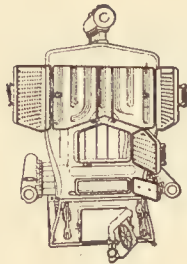
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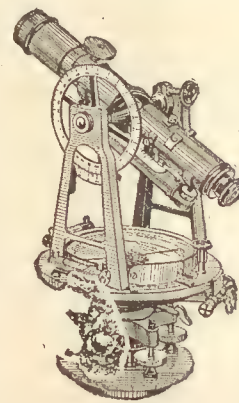
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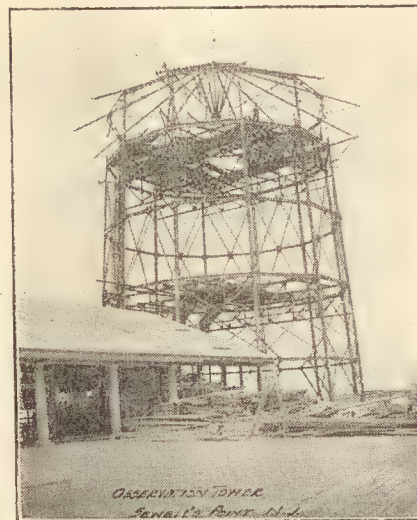
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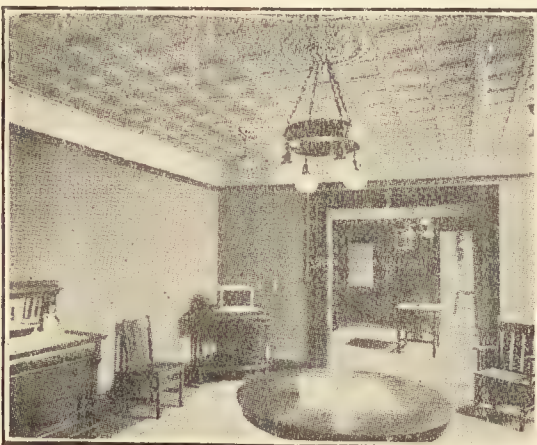


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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Media, Pa. Architects, Price & McLanahan, 1412 Walnut street. Owner, Dr. O. F. Janney, Media, Pa. Hollow tile and plaster, 2½ stories, 36x50 feet, slate roof, electric light, hot-water heating, hardwood floors. Revised plans in progress. Bids in a few days.

Residence, Latham Park, Pa. Architect, Ralph E. White, Pennsylvania Building. Owner, William L. Elkins Estate, Land Title Building. Stone, 2½ stories. Plans in progress. Architect about ready for bids.

Residence, Wissahickon avenue and Cliveden street. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, name withheld. Stone, 2½ stories, 26x42 feet; wing, 18x26 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architects will soon take bids.

Store and Residence (alt. and add.), Moore, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, W. M. Bateman, Moore, Pa. Frame, 2½ stories, electric light, steam heating. Plans in progress.

Picture Theatre, Sharpnack street and Germantown avenue. Architects, Borzner & Wood, 721 Walnut street. Owner, Benjamin Haas, 3008 Germantown avenue. Brick and terra cotta, 1 story, 42x100 feet, slag roof, electric lighting, steam heating. Plans in progress.

Store (alt. and add.), 2629-2631 Kensington avenue. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Harry Rosenthal, on premises. Brick, 3 stories, consists of new front and interior alteration and addition. Architects have received bids.

Apartment House, Park and Montgomery avenues. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, T. William Rodgers, 1001 Chestnut street. Brick and stone, 4 stories, 20x100 feet, slate and slag roof, electric lighting, steam heating, hardwood floors. Owner has received bids.

Residence, Cynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, R. F. Tull, Cynwyd, Pa. Brick, 2½ stories, 29x57 feet, green slate roof (heat and light, reserved), Rufftex brick,

red oak floors. Architects taking bids due February 18th. The following are figuring: H. E. Grau Co., 1707 Sansom street; R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Baton, Tenth and Sansom streets; J. E. Kearney, 327 North Sixty-third street; A. L. Fretz & Sons, 1222 Chancellor street; Mowrer Bros., Merion, Pa.

Home, South Philadelphia. \$45,000. Architect, C. Henry Wilson, 2nd, 1130 Lombard street. Owner, name withheld. Stone and brick, 4 stories, 80x120 feet, consists of offices, auditorium, gymnasium, class rooms, dormitory, infirmary and nursery. Plans in progress. Architect will be ready for bids about March 1st.

Garage and Cottage, Valley Forge, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, John R. K. Scott, Morris Building. Stone, 1½ stories, 22x24 feet, and stone and frame, 2 stories, 28x30 feet, shingle roof. Owner is taking sub-bids.

Factory, 206-208-210 South Twenty-fourth street. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, J. J. Greenberg, Morris Building. Brick, 4 stories, 61x238 feet, slag roof, electric lighting, steam heating. Architect taking bids due February 20th. The following are figuring: George Hogg, 1624 Sansom street; Harry Gill, Jr., 2515 Germantown avenue; F. O. Myhlertz, 1723 Filbert street; James G. Doak & Co., Crozer Building; Henry L. Brown, 1714 Sansom street; Stacy Reeves & Sons, 2011 Market street; F. Roe Searing, Perry Building; Pomeroy Construction Co., 1609 Ransstead street; Shaughnesy & Wiler, 122 South Thirteenth street; Freund-Seidenbach Co., Bulletin Building; Roydhouse-Arey Co., Fidelity Building.

Office Building, Juniper and Chestnut streets. Architect, Horace Trumbauer, Land Title Building. Owner, P. A. B. Widener, Land Title Building. Stone and brick, steel and concrete, fireproof, 18 stories, 150x199 feet, slag roof, electric light, steam heat, hollow tile partitions, 16 elevators, water-proofing, metal lath, iron doors and frames, steel doors, metal windows and doors and trimmings. Architect taking bids due Feb-

ruary 25th. The following are figuring: Doak & Co., Crozer Building; Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; George F. Payne & Co., 401 South Juniper street; Wells Bros. Co., 366 Fifth avenue, New York City; George A. Fuller Co., Morris Building; Thompson-Starrett Co., 49 Wall street, New York City; Cauldwell-Wingate Co., 381 Fourth avenue, New York City, and John T. Brady & Co., 103 Park avenue, New York City; Roydhouse-Arey Co., Fidelity Building.

Residence, Musgrave and Washington lane, \$6,500. Architect, private plans. Owner, William Byrd, 58 Good street. Stone, 3 stories, 25x60 feet, electric lighting, steam heating, slate roof, hardwood floors. Owners taking bids due February 21st. William J. Robinson, 1508 Lombard street, is figuring.

Residence (alt. and add.), 654 Rex avenue, Roxborough, Pa. Architect, Amos W. Barnes, 133 South Fifteenth street. Owner, Mrs. A. Stanertuck, on premises. Brick and plaster, 2 stories, 17x28 feet, slag roof, steam heat, hardwood floors. Architect has received bids.

Apartment House, Bryn Mawr, Pa. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, N. P. Sinclair, Real Estate Trust Building. Brick and concrete, fireproof, 6 stories, 70x167 feet, tile roof, electric lighting, hardwood floors, hot-water heat, damp-proofing and fire-proofing, electric elevators. Owners taking bids due February 18th. James C. Doak & Co., Crozer Building; Milton W. Young, Overbrook, Pa., are figuring.

Parish House (basement only), Gulph Mills, Pa. Architects, George Nattress & Sons, Twelfth and Walnut streets. Owner, Mills Episcopal Church. Stone, 2½ stories, tin roof, steam heat (basement only). Architect taking approximate bids. Specht & Sperry, Heed Building, and Worrell & Waters, Rosemont, Pa., are figuring.

Residence (2), Merion, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, George M. Randle, Drexel Building. Stone, 2½ stories, 50x23 feet each, slate roofs, hot-water heating, electric

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School, Hazleton, Pa. Architect, E. E. Joralemon, Buffalo, N. Y. Owner, Board of Education, Hazleton, Pa. Brick, 3 stories, 80x190 feet, slag roof (heat and light, reserved), metal lath, metal sash and frames, gypsum block partitions. Owners have received bids.

Pressure Tanks and Enclosures, 919 Walnut street. Architects, Stewardson & Page, 320 Walnut street. Owner, C. C. Harrison, on premises. Hollow tile, metal lath, water-proofing. Architects have received bids.

Garage, Fifteenth and Mellon streets. Architect, George S. Idell, 34 South Sixteenth street. Owners, B. F. Dewees & Co., 1112 Chestnut street. Brick, 2 stories, 61x65 feet, slag roof, electric light, steam heat, gasoline storage. Architect has received bids.

Automobile Show Rooms, Northwest corner Twenty-third and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenberg, Morris Building. Brick, fireproof, 4 stories, 100x208 feet. Plans in progress. Too early for details.

Store (add.), 616 South Hancock street. Architect, B. J. Medoff, 524 Walnut street. Owner, S. Goldstein, 212 Catherine street. Brick, 3 stories, 18x58 feet, slag roof, hot-air heating. Plans in progress.

Residences and Stores (alt. and add.), (6), 812-822 Columbia avenue. Architect, B. J. Medoff, 524 Walnut street. Owner, A. Miller, Commonwealth Building. Brick, 4 stories, consists of new store fronts, hot-water heating electric lighting. Plans in progress.

Store and Residence (alt. and add.), 317 South street. Architect, B. J. Medoff, 524 Walnut street. Owner, M. Auerbach, on premises, Brick, 3 stories, 16x34 feet, slag roof, hot-air heating, electric lighting. Plans in progress. Bids in about one week.

Lumber Shed and Dry Kilns, Thirty-ninth street and Powelton avenue, Philadelphia. Architect, private plans. Owner, George W. Smith & Co., on premises. Brick, wood and steel, 1 story, slag roof, hollow tile, fire-proofing. Builder John N. Gill & Co., Heed Building, is taking sub-bids.

Residence, Wilmington, Del. \$18,000. Architect, Charles Barton Keen, Bailey Building.

Owner, William C. Spruance, Jr., 1616 Broome street, Wilmington, Del. Brick, 2½ stories, 28x51 feet; wing, 18x30 feet, slate roof, vapor heating, hardwood floors, electric lighting. Plans in progress. Architect will take bids in three weeks.

Residences (5), Third and Pine streets Colwyn, Pa. \$12,000. Architect, E. Allon Wilson, 1208 Chestnut street. Owner, Christian Hansen, 5520 Pearl street. Brick, 2 stories, 16x36 feet each, slag roofs, hot-rail heating. Owner taking sub-bids.

Church, Harrisburg, Pa. \$50,000. Architects, Day & Klauder, 923 Chestnut street. Owner, First Church of Christ Scientist, Harrisburg, Pa. Stone and brick, 1 story. Plans in progress. Details undecided.

High School, Washington, D. C. \$600,000. Architect, Snowden Ashford, Washington, D. C. Owners, District of Columbus, District Commission, Washington, D. C. Brick, stone and concrete, 4 stories, 195x377 feet, tile and composition roof, enamel brick, water-proofing, steel casement windows, elevators, electric lighting, steam heating. Owners taking revised bids due March 2nd. In addition to those previously, Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Factory, 206-208-210 South Twenty-fourth street. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, J. J. Greenberg, Morris Building. Brick, 4 stories, 61x238 feet, slag roof, electric lighting, steam heating. Architect taking bids due February 20th. Loos & Dothard, 1438 South Penn Square, are figuring, in addition to those previously reported.

Garage, Overbrook, Philadelphia. Architects, Baily & Bassett, 421 Chestnut street. Owner, Ernest L. Tustin, Crozer Building. Stone, 1 story, 20x25 feet, tile roof, steam heating, electric lighting. Architects taking bids due February 19th. The following are figuring: Henry L. Brown, 1714 Sansom street; Alfred James, Bala, Pa.; Charles C. Pace, Merion, Pa.

Residence, St. Martin's, Philadelphia. Architect, Harris & Richards, Drexel Building. Owner, William Forsyth, 7020 Chew street. Stone, 2½ stories, slate roof, hot-water heating, electric light, hardwood floors. Plans in progress.

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Church, Sunday School and Parish House, Norristown, Pa. Architects, Watson & Huckel, 1211 Walnut street. Owners, Norristown Lutheran Church, Norristown, Pa. Stone and brick, 1, 2 and 3 stories, 22x35 feet and 45x120 feet, slate and tin roofs, central heating plant, electric lighting. Architects taking bids. The following are figuring: F. R. Heavner, N. S. Lawler, S. Oberholtzer and W. A. Shoffner, all of Norristown, Pa.

Hospital, Washington, D. C. Architect, Matthew C. Wyeth, 1517 "H" street, Washington, D. C. Owner, Columbia Hospital, Washington, D. C. Brick, steel and terra cotta, fireproof, 5 stories, 176x52 feet, 4 wings, 35x40 feet, slat and tile roof, steam heating, safety treads, electric light, metal sash and frames, composition floors, steel trimmings, vault lights, expanded metal. Owners taking bids due March 7th. J. E. & A. L. Pennock, Land Title Building, and Charles McCaul Co., Tenth and Sansom streets, both of Philadelphia, are figuring.

High School, Germantown avenue and High street, Germantown. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall, Philadelphia. Stone and brick, fireproof, 3 stories and basement. Plans in progress.

Hospital (Add.), Thirty-sixth and Spruce streets. Architects, Brockie & Hastings, 1713 Sansom street. Owners, University of Pennsylvania, on premises. Brick, stone and steel, fireproof, 3 stories and basement, 45x105 feet, slate roof (central plant for heating, electric lighting reserved), elevators, metal sash and frames. Architects taking bids, due February 25th, 12 o'clock noon. The following are figuring: Frank J. Treston, 2343 North Twen-

ty-second street; William R. Dougherty, 1610 Sansom street; George & Borst, 277 South Eleventh street; Cramp & Co., Denckla Building; Pomeroy Const. Co., 1609 Ranstead street; Jacob Myers & Sons Co., Witherspoon Building; Irwin & Leighton, 126 North Twelfth street; Roydhouse-Arey Company, Fidelity Building; H. H. Burrell, 1204 Chancellor street; Metzger & Wells, Heed Building; James G. Doak & Co., Crozer Building.

Residences (2), Eighteenth and Cayuga streets, \$10,000. Architect, private plans. Owner, Felix Cantona, 1908 Rowan street. Brick, 3 stories, 18x60 feet, slag roof, hot water heating, electric lighting. Owner taking bids, due February 18th. The following are figuring: W. D. Lukens, North Wales, Pa.; C. Hammerly, Melrose Park, Pa.; N. M. Bean, 4411 Germantown avenue; Specht & Sperry, Heed Building.

Store and Apartment House, 3336 North Broad street. Architects, Lachman & Murphy, Witherspoon Building. Owners, Thomas J. Beck & Son, 3320 North Broad street. Brick, 3 stories, slag roof, steam heating, electric lighting. Architects taking bids, due February 23rd. The following are figuring: Chas. McCaul Co., Tenth and Sansom streets; Haibach Contracting Company, Twenty-sixth and Thompson streets; Henry L. Brown, 1714 Sansom street; William H. Schultz, 3340 North Carlisle street.

Stores and Apartments, Forty-second and Aspen streets. Architect, William E. Grancell, 6156 Walnut street. Owner's name withheld. Brick, 2 stories, 90x32 feet, tile and slag roof, steam heating, electric lighting, hardwood floors, composition floors. Builder, Aler. Chambley, 243 South Tenth street, is taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence and Garage, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, F. A. Shick, West Bethlehem, Pa. Hollow tile and plaster, 2½ stories, 44x54 feet, slate roof, electric lighting, oak floors (vapor heating, reserved). Contract awarded to R. G. Breisch, Bethlehem, Pa.

Residence, Media, Pa. \$5,000. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. M. Jacobs, 1312 South Fifteenth street. Frame, 1½ stories, 34x39 feet, shingle roof, electric light, hot-water heat. Contract awarded to Irwin Faut, 4226 Sydenham street,

Residence, Chester, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Robert Wetherill, Chester, Pa. Brick and plaster, 2½ stories, 30x45 feet, slate roof (heat and light, reserved). Contract awarded to William Provost, Chester, Pa.

Residence, Fifty-fifth and Race streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, John M. McLaughlin, 571 East Henson street. Brick, 2 stories, 16x36 feet. Contract awarded to Christian Hansen, 5520 Pearl street.

Residences (2), Latham Park, Pa. Architect, Laurence Vissecher Boyd, Harrison

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Building. Owner, William L. Elkins' Estate, Land Title Building. Stone and plaster, 2½ stories, 25x51 feet and 51x50 feet, tile and slate roof, hot-water heating, electric lighting. Contract awarded to F. B. Davis, 34 South Seventeenth street.

Signal Tower. Roelofs, Pa. Architect, William Hunter, Twelfth and Market streets. Owners, Philadelphia & Reading R. R. Co. Twelfth and Market streets. Brick and plaster, 2 stories, 15x30 feet, asbestos shingle roof, electric light, hot-air heat, expanded metal. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Garage, Narberth, Pa. Architect, private plans. Owner, A. L. Jacoby, Narberth, Pa. Stone, 1 story, electric lighting. Contract awarded to W. D. Smedley, Narberth, Pa.

Abbatoir (alt. and add.), Thirtieth and Race streets. Architect, C. B. Comstock, New York City. Owners, West Philadelphia Stock Yards Co., on premises. Concrete and steel, slag roof. Contract awarded to Irwin & Leighton, 126 North Twelfth street.

Dormitory, Fifty-eighth street and Thomas avenue. Architect, Paul A. Davis, 3rd, 1713

Blue Prints

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Sansom street. Owner, Baptist Orphanage, on premises. Brick, stone trimmings, 2 stories, 30x90 feet, slate roof, steam heating, electric lighting. Contract awarded to H. E. Grau Co., 1707 Sansom street.

Manufacturing Building, Wolf and Swanson streets. \$45,000. Architect, J. P. Silsbee, Elyria, Ohio. Owners, Harshaw, Goodwin & Fuller, Cincinnati, Ohio. Brick, 1 story, consists of main factory building, two warehouses, storage room and power house. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Boiler House, Hancock and Thompson streets. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, T. A. Harris Co., 147 West Thompson street. Brick and concrete (2 stories, 50x75 feet, slag roof, electric lighting. Contract awarded to R. J. Whiteside & Sons, 2115 Wallace street.

Garage and Hall, South and Water streets.

Architects, Magaziner & Potter, 603 Chestnut street. Owner, John Cassidy, on premises. Brick and Concrete, 3 stories, 30x40 feet, slag roof, electric light, steam heating, metal sash and frames. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Warehouse, Forty-ninth and Chestnut streets. Architect, H. G. Hammer, 803 South Seventeenth street. Owners, Tajirian Bros., 140 South Fifteenth street. Brick, 2 stories, 30x50 feet, slag roof, electric lighting. Contract awarded to James M. Holm, 5556 Arch street.

Residence (alt. and add.), Merion, Pa. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Nicholas Thouron, Merion, Pa. Stone, fram and stucco, 2½ stories, 28x32 feet, slate roof (heating and electric work reserved). Contract awarded to Charles C. Pace, Merion, Pa.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Louis Beaming (O), 4933 North Fifth street. Cost, \$15,000. Six dwellings, brick, 2 stories, 15x50 feet, Fifth street and Lindley avenue.

John Wyeth & Bros. (O), Eleventh street and Washington avenue. Ketcham & McQuade (C), 1029 Brown street. Cost, \$17,500. Factory, brick, 2 stories, 58x127 feet, Eleventh street and Washington avenue.

Consolidated Construction Co. (O), 5501 Baltimore avenue. Cost, \$56,000. Four apartments, brick, 4 stories, 42x80 feet, 3516 North Sixteenth street. Cost, \$27,000. Three apartments.

E. H. Cturts (O), 2614 Ridge avenue. Cost, \$30,000. Twelve dwellings, brick, 2 stories, 16x51 feet, Camac street and Wyoming avenue.

B. Isenberg (O), 3872 Poplar street. Cost, \$10,000. Ten dwellings, brick, 2 stories, 14x31 feet, North and Granite streets. Cost, \$2,200. Two dwellings.

David Pienski (O), Eighty-fourth street and Eastwick avenue. Cost, \$16,000. Eight dwellings, brick, 2 stories, 16x40 feet, Eighty-fourth street and Brewster avenue.

J. S. Kane (O), Sventy-third street and Woodland avenue. E. E. Hollenback (C), Fifteenth and Race streets. Cost, \$18,000. Hotel, brick, 3 stories, 30x68 feet. Cost, \$2,000. Store, Seventy-third street and Woodland avenue.

F. Kernon (O), 5605 Greene street. J.

Thuman Co. (C), 92 Doleon street. Cost, \$1,500. Dwelling, brick, 2 stories, 16x25 feet, Wyoming and Germantown avenues.

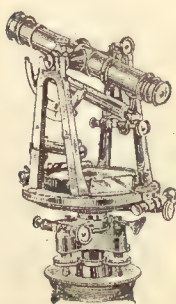
Harshaw, Fuller & Goodwin (O), Elyria, O. A. R. Raff (C), 1635 Thompson street. Cost, \$45,000. Manufacturing building, brick, 1 story, 305x400 feet, Swanson and Wolf streets.

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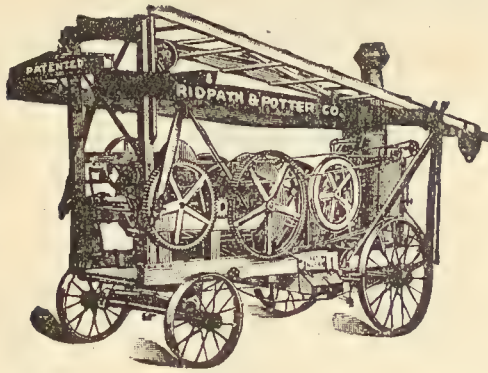
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Alterations and Additions

E. L. Block (O), New York City. S. Yelin (C), 616 North Seventh street. Cost, \$900. Store and manufacturing building, 815 Sansom street.

J. L. Allen Co. (O), Fifth street and Glenwood avenue. F. G. English (C), 1608 North Carlisle street. Cost, \$2,000. Platform, Fifth street and Glenwood avenue.

J. A. Reiss (O), 2623 Memphis street. F. Deitrich, Jr. (C), H and Potter streets. Cost, \$1,200. Shed, 2623 Memphis street.

M. J. Brown (O), Eighth and Ludlow streets. Zingrof & Betz (C), 2024 North Marshall street. Cost, \$1,500. Store and saloon, Eighth and Ludlow streets.

S. Hoffman (O), 1202 South Seventeenth street. N. Lehman (C), 920 Walf street. Cost, \$1,300. Store and dwelling, 1202 South Seventeenth street.

Childs' Restaurant (O), 1031 Market street. Cost, \$1,600. Store, 1031 Market street.

P. R. T. Co. (O), 810 Dauphin street. Cost,

\$28,000. Power house, 913 Beach street.

L. Mather (O), Fifth and Oxford streets. D. F. Wholey (C), 1109 Indiana avenue. Cost, \$2,600. Store and dwelling, Fifth and Oxford streets.

H. P. Wilhelm (O), 6155 Columbia avenue. M. W. Young (C), Overbrook, Pa. Cost, \$1,000. Garage, 6155 Columbia avenue.

I. O. Red Men (O), Fifty-ninth and Market streets. H. L. Wenholtz (C), 5836 Delancey street. Cost, \$860. Store and hall, Sixtieth and Spruce streets.

Weightman Estate (O), 1524 Chestnut street. Cost, \$1,500. Store, 118 North Second street.

Libby, McNeill & Libby (O), 134 North Delaware avenue. A. R. Raff (C), 1635 Thompson street. Cost, \$1,000. Warehouse, 136 North Delaware avenue.

Charles Kauffman (O), 332 Montrose street. Lester M. Shestack (C), 322 Dickinson street. Cost, \$600. Stable, 332 Montrose street.

NEW JERSEY

Construction News

Residence, Trenton, N. J. \$12,000. Architect, W. W. Slack & Co., American Mechanic Building, Trenton, N. J. Owner, John L. Brock, Canal street, Trenton, N. J. Frame and stucco, 2½ stories, tile roof, hot-water heating, electric lighting, hardwood floors. Revised plans in progress.

Bank. (alt. and add.), 203 South Broad street, Trenton, N. J. \$10,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, Mercer Trust Co., care of W. G. Howell, President, on premises. Brick, 2 stories, electric lighting, steam heating. Plans in progress.

Theatre, Clinton and Meade streets, Trenton, N. J. \$25,000. Architect, J. Osborne Hunt, 206 East Hanover street, Trenton, N. J. Owners, Hildinger, Bishop & Lamont, 118

Factory street, Trenton, N. J. Brick, 2 stories, 50x140 feet, slag roof, hollow tile fireproofing, steam heating, electric lighting. Architect ready for bids.

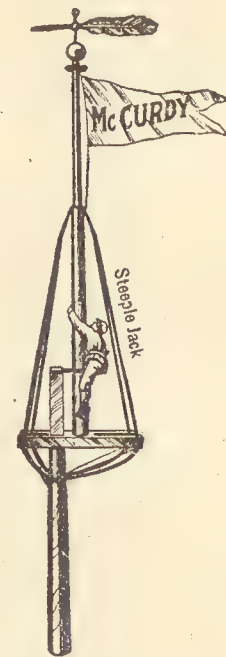
Residence, Trenton, N. J. \$5,000. Architects, Hill & Pette, 40 East State street, Trenton, N. J. Owner, Harold P. Humphrey, Trenton, N. J. Brick, 2½ stories, 35x35 feet, slate roof, hot-water heating, electric lighting. Plans about completed. Architects will take bids in a few days.

Church, Hopewell, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owner, First Presbyterian Church, Hopewell, N. J. Brick, stone trimmings, 1 story, 40x80 feet, slate roof, steam heating, electric lighting. Architects taking bids due February 26th.

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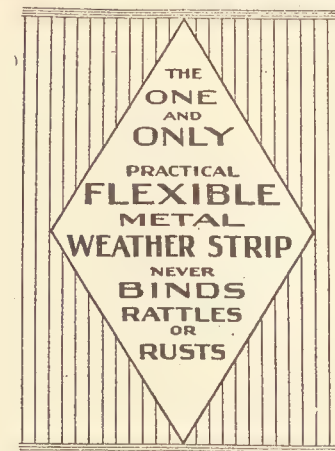
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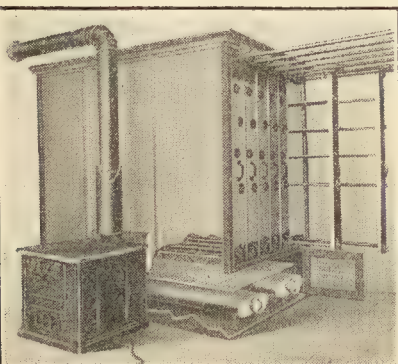
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PHONE SPRUCE, 62-91

Fire House, Trenton, N. J. \$15,000. Architect, W. P. Enderbrock, American Mechanic Building, Trenton, N. J. Owner, City of Trenton, care of George B. LaBarre, City Hall, Trenton, N. J. Brick and stone, 2 stories, slate and slag roof, steam heating, electric lighting. Plans completed. Owners will take bids in a few days.

School (add.), Merchantville, N. J. Architect, H. A. Macomb, 214 South Seventh street, Philadelphia. Owner, Board of Education, Merchantville, N. J. Brick, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

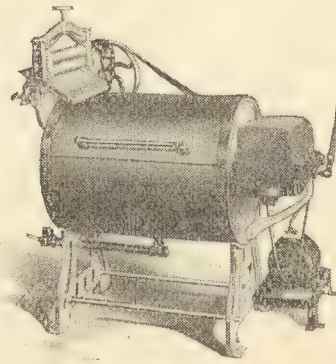
Bungalow, West Haddonfield, N. J. Archi-



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teet, private plans. Owner, Howard Ludham, Westfield, N. J. Frame, 2½ stories, shingle roof, electric light. Plans about completed. Owner will take bids.

Residences (6), Merchantville Heights, N. J. Architect, private plans. Owner, Harry Applegate, Merchantville Heights, N. J. Frame, 2½ stories, 24x29 feet, shingle roof, hot-water and steam heating, electric light. Plans in progress. Owners will take sub-bids.

Signal Tower, Hopewell, N. J. Architect, William Hunter, Twelfth and Market streets. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick and plaster, 2½ stories, 15x36 feet, asbestos shingle roof, electric light, hot-air heat, expanded metal. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Residence, Cape May, N. J. Architects, Mills and Van Kirk, Harrison Building. Own-J. Tatnall Lea, Stephen Girard Building. Hollow tile and plaster, 2½ stories, 35x47 feet, shingle roof, electric lighting, hot-air heating, oak floors. Architects ready for revised bids.

Department Store, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank, Trenton, N. J. Owner H. M. Voorhees & Bro., 109 East State street, Trenton, N. J. Granite, limestone and reinforced concrete, 4 stories, 60x165 feet, steam heat, slag roof, electric lighting, sprinkler system, cold storage plant, electric elevators. Contract for masonry work awarded to S. M. Mather & Sons, Trenton, N. J.

Store, Bridgeton, N. J. Architect, LeRoy B. Rothschild, Bulletin Building. Owner, A. S. Lavin, Bridgeton, N. J. Brick, 2 stories, 30x75 feet, slag roof, electric lighting, steam heating. Contract awarded to Bateman & Miller, Bridgeton, N. J.

Residence, Palmyra, N. J. Architect, Charles R. Peddle, 156 South Fourth street. Owner, T. E. Steele, Palmyra, N. J. Hollow tile and stucco, 2½ stories, 38x27 feet; wing, 18x18 feet, shingle roof, electric lighting, hot-air heating, hardwood floors. Architects taking bids due February 20th. The following are figuring: J. S. Rogers Co., Moorestown, N. J. George W. Shaner, Palmyra, N. J., and Louis F. Loudon, Riverton, N. J.

Theatre, Stores and Apartments, Beach Haven, N. J. Architect, George I. Lovatt, 418 Walnut street. Owner, Lester J. Osborn, 1616 Oxford street. Brick and frame, 3 stories, 60x115 feet, tile roof, steam heating, electric lighting. Architect taking bids due February 24th. The following are figuring: William Wrifford, 525 Market street, Camden, N. J.; Beach Haven Construction Co., Beach Haven, N. J.; Grant & Crammer, Beach Haven, N. J.; William L. Butler, Beach Haven, and Thomas Goslin, Wildwood, N. J.

School, Absecon, N. J., \$25,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City, N. J. Owners, Board of Education, Absecon, N. J. Brick, 2 stories, 50x85 feet, slate roof, electric lighting. Owners will take revised bids.

Residence, Delanco, N. J., \$4,200. Architect, Herbert C. Zeigler, Riverside, N. J. Owner, E. Johnson, Delanco, N. J. Frame, 2½ stories, 30x30 feet, asbestos shingle roof, hot air heating, electric lighting. Architect is ready for bids.

Garage, Delanco, N. J. Architect, Herbert C. Zeigler, Riverside, N. J. Owner, C. H. Taubel, Delanco, N. J. Stone, 1 story, 35x40 feet, shingle roof, hot water heater, electric lighting. Plans in progress.

Residence, Collingswood, N. J., \$6,000. Architects, Moffett & Stewart. Jessup Building, Camden, N. J. Owner, H. L. Goerlich, Jr., Collingswood, N. J. Hollow tile and stucco, 2½ stories, 30x40 feet, tile roof, steam heating, electric lighting. Architects taking bids, due February 23rd. The following are figuring: James K. Hunter, 917 Penn street,

Camden, N. J.; J. W. Draper, 436 Haddon avenue, Camden, N. J.; George Shaner, Palmyra, N. J., and E. Geschke, G. H. Berry, C. F. Taylor, Merriekville Land Company, all of Collingswood, N. J.

Double Residence, Beverly, N. J., \$4,000. Architect, H. F. Stees, Drexel Building, Philadelphia. Owner, George W. Addis, Beverly, N. J. Hollow tile and plaster, 2½ stories, 30x45 feet, shingle roof, hot water heating. Plans in progress.

Hotel, Clementon, N. J., \$3,000. Architect, private plans. Owner, E. C. Walsh, 4012 Baring street, Philadelphia. Frame, 1 story, shingle roof, steam heating, electric lighting. Builders' Martin Bros., National Park, N. J., are taking sub-bids.

Pennsylvania

Construction News

Mill, Spring City, Pa. Architect, J. V. Poley, Royersford, Pa. Owners, Spring City Knitting Mills Co., Spring City, Pa. Brick, 3 stories, 60x82 feet, slag roof, electric lighting. Architect has received bids.

Factory (add.), Catasqua, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owners, Wahinita Silk Company, Catasqua, Pa. Brick and concrete, 2 stories. Owners taking bids.

Store, Picture Theatre and Apartment House, Allentown, Pa. Architects, Jacoby & Weishample, Allentown, Pa. Owner, M. Shanock, Allentown, Pa. Brick and iron, 5 stories, 36x230 feet, composition roof, steam heating, gas and electric lighting, concrete and wood floors. Owner taking sub-bids.

Residence, Emaus, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, J. H. Frederick, Emaus, Pa. Brick, 3 stories, slate roof, steam heating, electric lighting. Plans in progress.

Apartment House, Seventh and Lehigh, Easton, Pa., \$15,000. Architect, F. H. Wenzelberger, Easton, Pa. Owner, L. H. Roseberry, Seventh and Lehigh, Easton, Pa. Brick and frame, 3 stories, 44x56 feet, slag roof, steam heating, electric lighting. Architect will take bids in one week.

Hall, 519 Northampton street, Easton, Pa., \$45,000. Architect, F. H. Wenzelberger, Easton, Pa. Owners, Odd Fellows, Easton, Pa. Brick and terra cotta, 3 stories, 54x185 feet, slag roof, steam heating, electric lighting. Bids will be taken in one month.

Factory, Green street and Seitz Court, Easton, Pa., \$10,000. Architect, F. H. Wenzelberger, Easton, Pa. Owners, Lehman Bros., Easton, Pa. Brick and concrete, 2 stories, 50x120 feet, slag roof, steam heating, electric lighting. Owners taking bids.

School (add.), Wilson Township, Northampton County, Pa., \$18,000. Architect, F. H. Wenzelberger, Easton, Pa. Owners, Board of Education, Northampton County, Pa. Brick and frame, 2 stories, 40x60 feet, slate roof, steam heating, electric lighting. Bids will be taken in two weeks.

School (add.), West Easton Borough, Pa., \$10,000. Architect, F. H. Wenzelberger, Easton, Pa. Owners, Board of Education, Easton, Pa. Brick and frame, 2 stories, 40x45 feet, slate roof, steam heating, electric lighting. Bids will be taken in about two weeks.

Court House, Allentown, Pa., \$250,000. Architect, R. S. Rathburn, Commonwealth Building, Allentown. Owners, Lehigh County Commissioners, Court House, Allentown, Pa. Stone and steel, fireproof, 4 stories. Plans completed. Owners ready for bids.

High School, Allentown, Pa., \$400,000. Architect not selected. Owners, Board of Education, Allentown, Pa. Brick, stone and steel, fireproof, 4 stories. Owners will soon invite competitive plans.

WELL KNOWN PHILADELPHIA BRICK MEN OPEN NEW YORK OFFICES.

The Henderson-Frazier-Dobbs Company announces the opening of offices at suite No. 1223 Saint James Building, 1133 Broadway, New York, for the sale of a general line of brick, including high grade front brick of all colors, enameled brick, rough texture brick and paving blocks.

This new company consists of Charles J. Henderson, of New York; Daniel B. Frazier and Samuel B. Dobbs, of Philadelphia, and started business February 1st, 1914, handling a most complete line of brick and controlling the New York territory for the output of a considerable number of the largest and most reputable brick manufacturing concerns in the Eastern United States.

Mr. Henderson is already well and favorably known to the New York brick tradé, having been for years general sales manager for the Harbison Walker Refractories Company and later the Hay Walker Brick Company, with headquarters in New York.

Mr. Frazier was prominently identified in brick circles a few years ago, during which time he organized the Atlantic Brick Manufacturing Company, built its large plant at Mays Landing, N. J., and for several years was Secretary and General Manager of the company. He now re-enters the brick field after being for a long time engaged in other business.

Mr. Dobbs has for a long time been the leading face brick dealer in Philadelphia, with branch offices at Baltimore, Washington and Atlantic City.

All the members of the new firm are comparatively young men of known force and ability who have been remarkably successful during their business careers, and their firm enters the New York brick market under most favorable conditions for at once becoming a strong factor in the brick trade.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

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LEGAL STATUS OF THE SUB-CONTRACTOR

Basis Upon Which Rests His Right to a Lien on the Premises Whereon His Work Was Done.

"A sub-contractor is one who takes from the contractor a specified part of the work" (Rankin v. Rankin et al., 122, P. 1120), and there his troubles begin for he is not dealing with the owner, but with one who has contracted with the owner, and when he looks to the owner for reimbursement for services rendered on his sub-contract, he frequently finds that he has not complied with certain requirements of the law which would have rendered his claim valid.

Under the common law the sub-contractor could not recover against the owner. In the case of N. J. Steigleder and Son v. Allen (75 S. E., 191), the court says: "At common law, there being no privity between an owner of property and a sub-contractor, who had agreed with the general contractor alone to construct a portion of a building for the owner, such sub-contractor had no legal claim which he could maintain against the owner for work done or material furnished under his contract with the general contractor."

Meaning of Privity Defined.

"Privity" is defined as: "Connection, interest, mutuality of interest, as subsists between the immediate parties to a contract." Therefore, unless it could be shown that such a "privity of interest" existed, the sub-contractor was without recourse as against the owner. So many abuses resulted from this condition that state legislatures began to provide remedies, and we have the great mass of so-called "statutory" law bearing upon the subject.

The right of the sub-contractor to recover from the owner or to obtain a lien upon his property rests, therefore, upon the laws enacted for this express purpose by the legislatures of the different states. This has caused the courts to construe such statutes strictly and to be very careful not to grant a greater measure of relief than was explicitly provided for in the statute itself.

A Strict Construction of the Law.

As an instance of this strict construction may be cited the case of C. C. Belknap Co. v. Kelleher et. al., in which the Supreme Court of Washington says in its opinion, handed down April 1, 1913: "The complaint was clearly defective. It was alleged that 'on the 14th day of September, 1911, plaintiff, at the special instance and request of James Duffy and Kohler and Chase, a corporation, commenced to furnish material and perform labor, which material was used and which labor was performed in and about the construction and alteration of a certain building or structure on the premises hereinabove described, which material was of the reasonable value,' etc., but there was no obligation of the relation of James Duffy or

Kohler and Chase to the owners of the property, that is to say, there was no allegation that they were the actual agents of the owner of the property, or were contractors, sub-contractors, architects, builders or persons having charge of the construction of the building on which the lien is claimed. Persons standing in one or the other of these relations to the owner are the only persons that can lawfully bind his property for materials or labor used in the construction or alteration of a building thereon and a complaint, if it be not subject to demurrer must set forth that the materials and labor for which the lien is claimed were furnished either at the instance of the owner or some person bearing this statutory relationship to the owner."

The Attitude of the Courts.

As a further illustration of the attitude of the courts with regard to the strict construction of the statutory laws relating to mechanics' liens may be cited the decision of the United States Circuit Court of Appeals of the Sixth District, filed on January 7, 1913 (201 F., 901) above cited, in which the court says:

"The statute authorizes a lien in favor of mechanics, laborers and material men and provides that no person shall acquire this lien unless he shall notify in writing the owners of the property to be held liable or his authorized agent immediately after the last item of material or labor is furnished of his intention to hold the property liable, and the amount for which he claims a lien. Nothing is left to inference or conjecture. A compliance with this provision is, as we think, a *conditio sine qua non*. A lien such as is sought here for labor performed or material furnished, is unknown to the common law and is purely a statutory one. That there must be a substantial compliance with the terms of such statutes is everywhere maintained, and the right created thereunder can only be availed of in the manner and upon the conditions provided for in the act giving the lien. The language of the statute is clear and unambiguous and leaves no room for construction.

Knowledge of the Law Essential.

It is evident that a knowledge of the mechanics' lien law of his state is very important to every architect, builder and material man, or to the man who intends to erect a dwelling or other structure, and as a copy of the law is easily obtainable, there can be small excuse for the man who runs the risk of loss to himself or others through ignorance of the provisions of the statute.

An examination of the mechanics' lien statutes of the various states will show that two methods have been adopted for applying

the benefits of the statutes to sub-contractors. The earlier method which is still adhered to in many states, was to give the sub-contractor as well as the contractor an absolute and direct lien upon the property. This entailed hardship, for the owner must, in order to protect himself, retain in his own hands a sum sufficient to pay the claims of sub-contractors against the principal contractor. So burdensome did this become that later statutes provided a time limit within which these sub-contractors' claims must be filed. To show, however, that this direct lien provision is still adhered to, in the case of some states, it is sufficient to cite the case of Collins et al. vs. Board of Trustees of Davis and Elkins College (79 S. E., 10), in which the Supreme Court of Appeals of West Virginia, in an opinion filed June 17, 1913, has some interesting things to say with regard to the mechanics' lien laws in general:

"The present statute gives a direct lien to one performing labor or furnishing material under a contract with the principal contractor or his sub-contractor. To that extent it embodies the so-called Pennsylvania system, as contradistinguished from the New York system which was the basis of the former statute contained in Code 1887, Ch. 75. (Hunter vs. Truckee Lodge, 14 Nev., 24.)

The Direct Lien.

"But in construing the present statute, Section 3, which gives this direct lien, must be read in connection with Section 5, whereby the owner may limit his liabilities by recording his contract with the principal contractor. . . . Here we have that which gives the owner right to limit his liabilities under the contract. . . . Both provisions must be given effect. Taken together they plainly say that no payment by the owner to the contractor may effect or impair a lien, still the owner may record the building contract and thereby limit his liabilities under it so that the amounts to be paid by him shall not in the aggregate exceed the contract price. When one is about to perform labor or furnish material, he has notice by the recorded contract that payments may have been made and his right to lien thereby cut down or limited to the residue of the contract price."

The "New York system" referred to by the court in the preceding extract, is a more recent method of providing for action against the owners on the part of the sub-contractor, and it has been adopted in many states. By this system the sub-contractor is permitted, on giving notice of his claim to the owner, to intercept the money due from him to the contractor and to cause it to be paid to himself, instead of to the general contractor. In this system the sub-contractor has no absolute lien upon the property.

The relation of these two systems is well set forth by the court in the case of Merigan vs. English et al., 22 P., 454, in which the Supreme Court of Montana says:

Protection of Wage Earners.

"The tendency of land owners to enter into contracts at a figure so low that the original contractor could make no profit un-

less he refused to pay his employees has led to the enactment of laws for the protection of wage earners. There are two systems generally adopted throughout the United States—one known as the 'New York system,' the other as the 'Pennsylvania system.' The former gives to the sub-contractor a lien by way of subrogation, as it is termed by the text writers, which is accomplished by a notice given to the owner by the sub-contractor, which notice specifies the probable value of the services to be performed, or of the materials to be furnished, and the owner is thereupon entitled to withhold from the contractor money due to the latter to such an amount as will meet the demand. These are the general features of the New York system. . . . The other, or Pennsylvania system, gives a direct lien to the laborer or sub-contractor either by an agency created by the statute, or by an implied agency vested in the original contractor.

"An interesting discussion of this subject will be found in the very able opinion of the learned Chief Justice Beatty upon the petition for rehearing in the case of *Hunter vs. Truckee Lodge*, 14 Nev., 24" (above cited) . . . "The distinction referred to is this: Under the New York system the sub-contractor cannot recover more than is due from the owner to the contractor, that is to say, he is bound by the original contract; while under the other system, the original contract or payment to the original contractor is no defense to a claim of a sub-contractor."—Bertrand Sherburne in "The Building Age."

CONTRACTOR'S DUTY TO PEDESTRIANS.

Speaking of the rights of pedestrians concerning a temporary covered bridge built by a contractor for the demolition of a building, over sidewalks so that the work could be done without interrupting traffic, the Appellate Division of the New York Supreme Court, in the recent case of *Nessler vs. New York House Wrecking Company*, 141 New York Supplement 458, said: "The traveler cannot expect that the temporary passageway is either as convenient or as safe as that afforded by a sidewalk under ordinary conditions; but the extraordinary circumstances must be taken into consideration, in our view of the relative rights and obligations of the traveler and of the defendant."

In the case above mentioned, plaintiff, a pedestrian, sued for injury sustained while attempting to pass from a roadway to the sidewalk, by stumbling over the sill forming a part of the temporary bridge. In reversing a judgment in plaintiff's favor, the Appellate Division decided that, under the particular circumstances established by the evidence, it could not be found that the contractor was negligent in not failing to prevent access to the sidewalk from the roadway by constructing a railing, or in not cutting down the heights of the sill.

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IMPORTANT LEGAL DECISIONS DURING 1913

Aspects of Architects' Licenses—Phases of Building Contracts Adjudicated—Responsibility for Personal Injuries.

From the many decisions of the appellate courts of the country relating to the building trades and reported during 1913, I have selected those most likely to interest the readers.

The Illinois law requiring architects to pass an examination as to their qualifications and to procure a license before pursuing their profession in the state, was upheld by the Supreme Court of that state as constituting a valid exercise of the state's power to protect the public against ignorance and incapacity of professional men. It was, also, decided that the State Board of Examiners of Architects may revoke a license for gross incompetency or recklessness in the construction of buildings, or for dishonest practices on the part of the holder of a license. (102 Northeastern Reporter 193.)

Compromise Agreement for Settlement.

Provision in a building contract for settlement with the contractor on certificates issued by the supervising architect does not require the procuring of such certificate where, after a dispute as to the amount due the builder, he and the owner enter into a compromise agreement for a final settlement of all his claims (Massachusetts Supreme Judicial Court, 102 Northeastern Reporter 436.)

When an architect's right to compensation for preparing plans is made by his contract of employment to depend upon the plans being "satisfactory" to the owner, there can be no recovery of compensation, if the owner is actually dissatisfied, although it appears to others he should be satisfied. (United States Circuit Court of Appeals, Eighth Circuit; *Barnett vs. Beggs*; 208 Federal Reporter 255.)

Importance of Carefully Checking Plans.

The importance of careful checking up plans and specifications before submitting a bid for work based thereon is suggested by a decision of the Oregon Supreme Court, in the case of *Leonard vs. Howard*, 135 Pacific Reporter 49. Here it was decided that one who contracted to install fixtures in a building, but who, in making his bid, inadvertently overlooked certain things called for by the plans and specifications, could not claim a release from his contract on the ground of mistake. The court said: "The case is not different from what it would have been had they correctly counted the articles to be furnished, and by some mistake or oversight miscalculated the cost of them, and thereby been misled into making an unprofitable bid. Had a fraudulent plan been furnished defendants, or had they by any wrongful act or neglect of plaintiff been induced to make

the bid, the case would have been different; but in our opinion the evidence shows that the low bid made by them was the result of a mistake, and this mistake the result of Howard's careless examination of the plans. Under such circumstances neither law nor equity will help them."

A building contractor is not liable for damages to the owner for delay in completing contract work, if no practicable apportionment of the delay caused by him and that caused by the fault of the owner or his architect can be made. (Washington Supreme Court, 132 Pacific Reporter 1015.)

Extension of Time for Contractor.

A clause in a building contract entitled the contractor to an extension of time for completion of the work covering any delay caused by the owner, on condition that claim for the extension be presented in writing to the owner within five days of the occurrence of the delay, the duration of the extension to be certified by the architects. Held that it was not necessary that the architects certify the duration of the extension within the five days' period, and that this could be done any time before final settlement under the contract. (Pennsylvania Supreme Court, 88 Atlantic Reporter 69.)

When a husband contracts, in his own name, with the knowledge of his wife, for the erection of a building on her land, and the work is carried on with her consent, she cannot prevent attachment of a mechanic's lien against the land in favor of the builder. (West Virginia Supreme Court of Appeals, 77 Southeastern Reporter 655.)

When Owner Cannot Defeat Suit.

An owner of a building cannot defeat suit by the builder to enforce a mechanic's lien for the amount due on the contract price by showing that the walls cracked because one end of the foundation was not carried down as far as it should have been to make the structure sound, if the depth of the construction was a matter within the control of the owner under the contract, and he approved the depth to which the foundation was excavated. (United States Circuit Court of Appeals, 206 Federal Reporter 448.) A contract for the erection of a building need not be in writing in order that the builder may enforce a mechanic's lien for the amount due him. (South Dakota Supreme Court, 143 Northwestern Reporter 277.) Although, under the laws of New York, an architect cannot have a mechanic's lien for the price of his plans, he may assert a lien for services in superintending work done under them. (New York Supreme Court, Second Appellate Division; 143 New York Supplement 838.) Where the owner of a building, after receiv-

ing notice of claim of materialman for materials furnished a sub-contractor, paid the general contractor, both owner and general contractor became personally liable for the materialism. (Texas Court of Civil Appeals, 160 Southwestern Reporter 418.)

A bond given by a building contractor to secure payment for materials extends to his liability for materials furnished, but not actually used in the work, he having failed to reserve the right to return materials not used. If he did not direct how payments made by him to a materialman should be applied, the latter was entitled to apply them to other debts due from him, and hold the surety on the bond for materials furnished for the particular building covered by the bond. (Washington Supreme Court, 132 Pacific Reporter 873.)

Floors During Construction of Steel Buildings.

Provisions of the New York Labor Law were construed by the Appellate Division of the Supreme Court, to require contractors for the erection of iron and steel buildings, on setting and bolting floor beams, to floor over the entire space, excepting the places necessary for hoisting purposes, stairways and elevator shafts; and it is decided that nothing may be done on the floor in preparation for actual work for further construction until that duty has been performed, but that workmen employed in laying the floor assume the risk incident to its open condition while being laid. (141 New York Supplement 29.) The Massachusetts Workmen's Compensation Act makes an employer liable for injury to a workman inflicted by a fellow-employee while intoxicated, if the employer knew that the latter was quarrelsome and dangerous when drunk. (Massachusetts Supreme Judicial Court, 102 Northeastern Reporter 697.) But the law does not cover an accident sustained by an employee while temporarily engaged in work in another State. (Page 693.) A contractor engaged in the construction of a building and authorized to use part of an adjacent street for temporary storage of materials and machinery, must use the highest degree of care to avoid injury to passing pedestrians. (Iowa Supreme Court, 141 Northwestern Reporter 1074.)

Where a building in process of construction was damaged by the negligent manner in which a street contractor conducted blasting operations in an adjacent street, the building contractor's recovery against him was limited to the amount necessary to restore the building to the condition in which it was before the explosion complained of. (Oregon Supreme Court, 136 Pacific Reporter 2g.)

Builder's Insurable Interest.

A builder who has agreed to erect a building, furnishing the materials therefor, has an insurable interest in the structure, irrespective of payments made to him by the owner. On destruction of a building which was insured and destroyed in the course of construction, the builder was entitled to recover only the value of the building at the time of

the fire, less its value when he commenced work. (South Carolina Supreme Court, 77 Southeastern Reporter 1108.)

A defamatory written statement imputing to a contractor dishonesty or fraud in his business is libelous. An article criticizing unfavorably the manner in which a school building was constructed was not privileged as constituting a fair and reasonable comment upon a matter of public concern, if it was published maliciously. (Mass. Supreme Judicial Court, 102 Northeastern Reporter 938.)

A firm of contractors who agreed to construct a county courthouse can recover against a railway company for negligent delay in transporting inside woodwork, thus delaying completion of the building, for loss sustained by them for wages paid idle workmen while awaiting the shipment, expenses incurred in tracing the freight, the amount of a forfeiture which they were compelled to

pay for the delay in completing the courthouse, and interest on loans which they were required to obtain by reason of the delay; it appearing that the woodwork was especially designed for the building. But the firm is not entitled to recover an item for loss of time sustained by one of the members, in the absence of a showing that the delay in transporting the freight directly caused the loss. (Georgia Court of Appeals, 79 Southeastern Reporter 41.)

A restrictive building covenant in a deed, requiring twenty feet open space between houses on adjoining lots, is violated by maintenance of a bay window projecting about fifteen inches over the line, but slight projections will not be enjoined by the courts, where the general purpose of the restriction to give each owner sufficient light and air is not violated. (New Jersey Court of Chancery, 87 Atlantic Reporter 158.)—A. S. H. Street, in "The Building Age."

TIN AND COMPOSITION ROOFING

From the Standpoint of Fire Protection

An interesting and somewhat typical issue has been raised between an architect and the building commissioner of one of our minor cities, and has been referred to the "National Builder" to pass upon.

As this matter is one of considerable importance to the trade, we make no apology for going into it in some detail and in a way that our readers may grasp for themselves, in a somewhat appreciative way, the essential issues and phases of the discussion.

The question is: Whether tin roof over wood is a better protection against fire than tar and gravel over wood? The architect prefers the tar and gravel arrangement, the building commissioner decides in favor of the tin arrangement. The building commissioner bases his opinion upon a section of the building ordinance of his city, which reads as follows: "All roofs within the inner or outer fire limits must be of non-combustible material, approved by the building inspector."

If this section is to be rightly interpreted, and by lawyers and not by practical builders and fire experts, then the clause itself is open to criticism and needs redrafting. Certain it is that the best and most important districts of Chicago and other leading cities, one plastered over with costly skyscrapers (classed fire-proof) the roofs are finished off tar-and-gravel-wise.

What is a roof and what is roofing?

The tin roof of practice is not made exclusively of tin, nor is the tar and gravel roof of practice made up exclusively of the materials to which it owes its name. Both roofs—as before stated and now emphasized—are arrangements. A roof is something more than a surface, the outermost facing.

Every one knows that tin as tin is non-combustible and that tar as tar is combustible, but practical men do not face the grave

problems of fire and fire protection in that isolated and crude frame of mind. The fire menace has to be confronted and fought as a whole, not by segregating units fire-resisting or otherwise, but by synthetizing and co-ordinating them, so that they shall all serve to the main end. The sooner we grasp this fact, the better for all. Neglect of it is responsible for some of our most distasteful conflagrations. Our roofs, like our heads, should be well balanced.

Referring to the great fire at Baltimore, one of the leading fire authorities delivers himself as follows: "One of the results of the Baltimore conflagration was to radically change all the calculations and to make the expert expunge the term 'fire-proof' from his dictionary, even to distrust every mode of construction, paint or process to which it applied."

The fact is that the combustibility or the non-combustibility (within well defined limits) of the material used is not the single or perhaps even the chief consideration when the subject of fire protection is considered, as a whole. A material non-combustible in itself may, in practice, prove to be an exceedingly poor fire-resistant in combination with other materials, and owing to the manner of its application. It is because he overlooks this side of the problem that the average man is ever predisposed in favor of the heavier materials such as metals and stone, and at the expense of lumber and compositions. The man of wide and more practical experience does not rashly commit himself. He knows better.

The fire resisting efficiencies of materials depends upon a wide variety of considerations, such as: Combustibility, fusibility, chemical changes, expansion and buckling, (Continued on page 118.)

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Editorial Comment

The Circular of Information for those contemplating entries in the Twentieth Architectural Exhibition of Philadelphia Chapter, A. I. of A., and the T-Square Club, to be held in the galleries of the Art Club, Broad and Chancellor streets, Philadelphia, April 19 to May 10, inclusive, has just been issued. Entry slips must be received on or before February 28th. Exhibits must be ready for collection positively not later than Wednesday, April 8th. Under the head of "Exhibits" the following rules are laid down for the guidance of exhibitors:

Qualifications.

Exhibits must consist of drawings, models and photographs of executed or proposed work, illustrative of structural, decorative and landscape architecture, sketches and paintings of decorative subjects, and executed work in the applied arts. Portrait busts, sculpture, and paintings not architectural in character will not be received.

Perspectives, elevations and photographs should be accompanied by rendered plans wherever possible. Groups of drawings, models and cartoons, illustrating in combination the architectural, sculptural and decorative scheme of a single work are particularly solicited.

Conditions.

All accepted exhibits are subject to publication in the Year Book, must remain until the close of the exhibition, and may not be offered for sale during the exhibition.

Presentation.

The exhibitor's name and the title must appear on the face of each exhibit; but the Committee reserves the right to change any title unduly conspicuous. Each exhibit must be marked as directed with a label. All drawings, photographs, sketches and decorative paintings must be mounted or framed, preferably without glass; and with borders and mats on stretched frames reduced to a minimum, and of a color preferably other than white.

Charges.

All exhibits will be collected by the Haseltine Galleries at the expense of the Exhibition Board. All accepted exhibits will be returned at the expense of the Board. All exhibits not accepted must, upon notification, be promptly collected, at the owner's expense, from the point to which consignment was made.

Liability.

Unless otherwise especially agreed, the Exhibition Board will not be responsible for the loss of, or damage to, any of the exhibits, arising from any cause whatsoever, whether during carriage or while in the custody of the Exhibition Board.

The sending of an exhibit to the Exhibition shall constitute an assent on the part of the

sender to the conditions set forth in this Circular of Information.

Present indications favor the view that the coming exhibition will be in every way a worthy successor to the long series of notable exhibitions held in former years under the same auspices. Indeed, there is room to believe that the coming exhibit will be in many respects even more notable than the most distinguished of its predecessors. The fact that it will be held this year in the cosy galleries of the Art Club instead of as heretofore in the over-spacious and too-public display rooms of the Academy, is expected, for one thing, to show the drawings to much better advantage. The Exhibition Board consists of Arthur I. Meigs, Chairman; Edwin H. Fetterolf, Walter W. Sharpley, E. Perot Bissell, Herman L. Duhring, Jr., George H. Bickley and J. Gilbert McIlvaine.

* * *

The Tenth Annual Dinner of the Charles Warner Company, held in the Rose Room of the Hotel Du Pont, at Wilmington, Delaware, on the evening of the 10th of January, was raised above the dead level of events of its kind by a little address on "Esprit de Corps" that should find a place in the scrap book of every sales manager and department head in the United States. It is a perfect gem of sound commercial common sense and goes a long ways to explain why it is that the Warner Company's representatives display the hustle and loyalty which is so marked a characteristic of the men who represent this solid concern in its dealings with the trade. The address was made by William P. White, assistant treasurer of the Warner Company, and is so good that we are glad to be able to reprint every line of it from the pages of the "Mason Builder," the excellently handled little house organ of the Warner interests.

Said Mr. White:

"It is with some misgivings that I rise to cast the first brand into this peaceful assemblage, that has apparently been enjoying itself so much up to now. And I am glad for your sakes as well as my own that I have been limited to five minutes.

In the first place, I want to say that I am very reluctant indeed to criticize the committee arranging for this Tenth Annual Banquet for what appears to me to be a dereliction in that they have failed to place on their song sheet that always appropriate and might I say, pathetic ballad entitled, 'If you ain't got no money, why you needn't come around.' This song, I dare say, would have appealed with equal emphasis to the bankers connected with our company, as well as the rest of us magnates, who compose the rank and file of our organization.

And now seriously for a few brief seconds to the subject assigned to me by the two

Frenchmen of the committee, Messrs. McGowan and Traynor, namely, 'The Esprit de Corps,' which being interpreted by the 'Standard,' is the spirit of devotion to the common welfare of an organization or body. The success of this or any organization depends very materially upon the character of the 'Esprit de Corps.' No matter how intelligent may be the direction of the executives of the organization, we fail of success unless there is on the part of the men upon whom devolves the responsibility of putting into execution the policies projected, that spirit of helpful co-operation, which is the very foundation of the 'Esprit de Corps.'

This spirit may be developed or retarded by the attitude assumed by the heads of the several departments towards the men under them and vice versa.

If a department head is autocratic in his manner, and does not therefore command the confidence and respect of his men as he should, his department cannot be expected to conduce to the highest efficiency, for while he may accomplish the work in his department, he has lost the interest of his men to himself and the company after hours.

If likewise, we in the ranks are not in entire harmony with the department heads and with each other, we cannot do justice either to the company or ourselves.

'We lead and others follow,' may be a good advertising slogan, but our motto should be, 'All pull together all the time,' each his pound, and success will be ours. As the editor of the 'Manchester Union' expresses it, 'Of course we could not stop Niagara, but in trying, we might develop strength that would be useful to us.'

Let us cultivate the spirit of fellowship that will impel us to make the opportunity if it does not come otherwise, to assist each other in making it easier to fight life's battle.

A gentleman said to his friend as they walked past the statue of William Penn, 'I don't know that I envy William Penn; he is too far below the Brotherhood of Angels and too far above the Brotherhood of Men,' and well might we all say away with the sentiment of that gallant captain who said to his men, 'Fight like heroes till your powder's done, then run for your lives. I'm a little lame, so I'll start now.'

I might elaborate on this subject for an hour or more, but I forbear. It is more beautifully developed in that poem by Rudyard Kipling on 'If,' a portion of which I quote:

'If you can keep your head when all about you

Are losing their and blaming it on you.
If you can trust yourself when all men doubt you,

But make allowance for their doubting, too.

If you can wait and not be tired by waiting

Or being lied about, don't deal in lies

Or being hated don't give way to hating

And yet don't look too good, nor talk too wise,

If you can fill the unforgiving minute

With sixty seconds' worth of distance run,
Yours is the Earth and everything that's in it,

And—which is more—you'll be a Man, my son.'

In closing I desire to congratulate our company on the successful year just ended, which success has been made possible by the combined efforts of us all, and I believe I voice the sentiments of this splendid organization when I say that whatever has been the 'Esprit de Corps' during the years gone by, we will resolve for this year to cultivate that spirit of loyal devotion to the common welfare of our company, to the end that this may be the banner year in our history.'

* * *

'The National Builder' has a paragraph in the editorial comment pages of the February number touching a subject which has, upon more than one occasion, engaged our own attention during the past year.

'Nearly every day,' remarks the 'National Builder,' 'we read in the newspapers of costly buildings being destroyed by fire, the fires being attributed to defective wiring or some other cause in connection with electric fittings. This is hardly just to electricians, as in a long experience in examination of wiring where fires have occurred, we have never been able to trace a single fire to defective wiring. The other day we brought this matter to the attention of an expert in electrical matters, and asked him what he knew about it. His reply was 'that he did not believe he could wire a building so as to cause it to catch fire even if he laid the bare wire on wooden floors.' In view of the accepted idea that bad wiring will cause a fire, would it not be well for those who know to decide the matter? Electric wiring is so universal now that it is of importance to know as much as possible concerning it.'

* * *

The trouble in the majority of instances is not so much with the electrical wiring as with the dunderheaded fire marshal attaches who, lacking a sensible clue to the cause of conflagrations in which the evidence is consumed along with the building, fall back on the old scapegoat of "defective wiring" to cover up their own pitiful official shortcomings. It is in the highest degree doubtful to our way of thinking that "defective wiring" has caused one-thousandth part of the fires attributed to it by inspectors who either cannot see or for reasons of policy hesitate to admit the real causes. This "reasons of policy" statement is by no means the idle exaggeration it may seem to readers unacquainted with official procedure. To give out the real cause in the case of many of the worst fires with which urban communities have to deal would not infrequently serve to expose the almost hopeless inefficiency of the inspection maintained to prevent just such disasters. "Defective wiring," like the "defective flue" in the case of dwelling houses, affords an easy explanation when the real facts happen to be more or less embarrassing and likely to engender criticism.

Another paragraph in the same excellent publication is worth reproducing for the benefit of building owners who look upon fire as the one depreciating factor to be considered in safeguarding their investments:

'Many a man is punctual about protecting his property from loss by fire,' says the 'National Builder,' 'but fails to protect it against the weather, such as the sun, the wind, the moisture. He can appreciate the destruction which comes from fire, but he is totally blind to the slower destruction which takes place day by day, and month by month.'

The loss by fire is a possibility of possibly one in a thousand, but he protects himself against this. The certainty of deterioration from rot and rust, shrinkage and warping is ever present and can only be guarded against by being properly painted.

In placing fire insurance the premium paid is absolutely gone and the owner has only the sense of protection. By properly caring for his property in other ways, however, such as painting, repairs, etc., he sees the worth of his money in the improved appearance of the building, the certainty that it will last longer and give him the satisfaction of the better building. Fire insurance is merely insurance against sudden loss, while paint and repair insurance prevent the loss in the first place, and increases the market value at the same time.

The cost of painting and keeping up the appearances and good condition of the building may run a trifle more than the fire insurance, but it is money well spent.'

* * *

There is more in this item of reasonable repair than appears on the surface. Some years ago a brace of active, long-headed business men organized a real estate managing concern in New York City. They called upon men who owned unproductive real estate and offered if this property was placed in their care to guarantee a certain fixed return. All that they exacted was a proviso that they should be empowered to repair, remodel and alter or extend the properties as they saw fit without hindrance or interference from the owner or his representatives. Men old in the real estate field did not hesitate to predict bankruptcy for the crack-brained innovators who would dare to guarantee returns upon such a basis. Large parcels of undeveloped, half developed and unproductive property was handed over to the firm by owners who had themselves despaired of ever making it pay. What happened? The properties were overhauled, remodelled, repaired, made modern and attractive and leased without difficulty to desirable tenants. The secret of the success of the firm was making attractive propositions that by reason of penurious management had been made the reverse during a long period of years. To-day the firm is one of the largest and most successful corporations in Greater New York, and has a host of imitators. Take any prominent business street of any big city and you can pick out without effort hundreds of desirable properties that are not producing the return they

A large number of people have taken advantage of our offer to finance the electric wiring of their homes on the installment plan. Many hundreds more would do it if they fully realized the fact that wiring a house is accomplished with so little noise, dirt and inconvenience, that you are not deprived of the use of any of your apartments for even a single day.

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should and could produce for no other reason in the world than that the owner is too shortsighted to perceive the importance of keeping in step with the procession in the matter of paint, modernity and necessary repairs. Indeed, we have in mind as we write these lines a local firm of real estate speculators who have built up a considerable fortune within the past five years just by buying, remodelling and disposing of at a profit properties of the class mentioned. And the game is still in its infancy, as the most casual observer cannot fail to see who uses his eyes in a walk on any of the principal local business thoroughfares. Money expended upon paint and repairs pays and pays big. The owner who thinks otherwise is not keeping up with the times. He is a pull-back, an obstacle in the way of progress, an excrescence on the body-politic and an eye-sore in a wide-awake community.

TIN AND COMPOSITION ROOFING.

(Continued from page 115.)

reception, absorption, and transmission of heat, and so forth.

The test specifications require that roof coverings, before receiving classification, shall be subjected to tests and investigations as follows:

- (1) Flame exposure tests.
- (2) Burning brand tests.
- (3) Radiation tests.
- (4) Investigation to determine the permanence and quality of the raw materials employed, the weathering properties and the necessity of repairs and renewals in the roof covering as applied to the roof structure.
- (5) Additional tests may be called for when in the judgment of the Underwriters' Laboratories, Incorporated, they are deemed necessary.

The term roof structure includes cupolas, dormers, towers or steeples, tank houses, and other super-structures of various kinds, which add to the heights of the building.

Having briefly outlined the general principles that underlie the fire protection problem, let us turn our attention more especially to the question immediately before us—tar and gravel roofing and tin roofing. We assume in both cases, good materials and workmanship.

The following facts as to roofing materials, which are not generally accessible, will be found by discriminating and interested parties, who wish to do the right thing but do not know precisely how to go about it.

The word "tar" is freely used in the roofing business and is often misused. For this reason, the expert prefers the word "cement" in his roof specifications. What follows, hereon, will explain why. There is a distinction here, an up-grading and a corresponding down-grading that is vital. This we now propose to make clear.

Ordinary tar is a product of the destructive distillation of coal as received from gas works or coke ovens. The bulk of yield thus received is about the consistency of ordinary lubricating oil, or thin syrup. It contains considerable water.

Prepared tar for roofing is above distilled.

Two methods are adopted.

The first operation is to remove the water and heavier fractions. The resultant is known as tar oil. The heavier fractions are next distilled, until the majority of the softer materials have been removed. Resulting material left in the still is known as coal tar pitch. This material is quite hard and brittle at atmospheric temperature.

For average roofing purposes, the pitch and tar, above referred to, are fluxed to give the desired consistency. The mixing of these two materials is done upon the job, usually by the kettle man. He mixes by rule-of-thumb, and has no definite means of fitting compounds. This practice is very general for the cheaper grades of roofing of the so-called built-up type, having loose surfaces.

Another and better practice is to use what is known as straight-run pitch.

Straight-run pitch is made from the same raw materials, as previously described. In this case, the distilling process is carried on continuously until the desired consistency is obtained. This method removes most of the lighter and volatile portions, and leaves the harder portions and the heavier oils. This latter process eliminates the rule-of-thumb methods.

The straight-run pitch method throws off the greater majority of the volatile portions of tar, and the percentage hard pitch and inert material is relatively low. By the fluxing method, the applied compound contains a considerable portion of tar oil of a relatively low flash point, and which is volatile. It also contains a considerable proportion of hard brittle pitch.

Weather, more particularly sun action, tends to slowly volatilize the compounds—the

brighter the light the more rapid the volatilization. The hard pitch unless mixed with lighter fractions is better and non-plastic. The volatilizing of the lighter oils from the hard pitch leaves the compound of the two harder; and the covering in which the material is used is liable to crack and become leaky.

When an exceptionally high grade roofing is desired, some architects specify best cement manufactured from natural lake asphalt. The best known asphalt lake is on the island of Trinidad.

The respective ignition points of the three above named kinds of roofing cements known follows: Mixed (superior) 300 degrees Fahrenheit; straight-run, 475 degrees Fahrenheit; asphalt, 575 degrees Fahrenheit. Figures are approximates.

Specifications for composition roofing on wood boards, recommended by the committee on roofs and roofing, National Fire Protection Association. Condensed:

Roof incline not to exceed three inches in one foot.

Roof boards to be dry, well seasoned matched boards, not less than one inch in thickness and not over seven inches in width, all joints well driven together and having at least two nails in each rafter.

(1) Cover entire roof with rosin sized sheathing paper or unsaturated felt, lapping each sheet one inch over the preceding sheet.

(2) Over above, and beginning at lowest part of the roof, lay two thicknesses of saturated felt lapped the full width. Then proceed towards the high part of the roof, laying each sheet seventeen inches over the preceding sheet.

(3) Over entire area of surface thus laid spread a uniform coat of cement mopped on.

(4) Then, beginning at the lowest part of the roof, fold single sheet one-third width and mop folder part full width of fold and over entire surface of sheet thus laid. Over this, lay one thickness of saturated felt and then proceed toward high part of roof, lapping each sheet 22 inches over the preceding one—valleys to receive one extra thickness laid lengthwise.

(5) Over the entire surface of the felt thus laid, and after flashings, etc., are placed, spread a uniform body of cement, into which, while hot, imbed slag or gravel, well broomed.

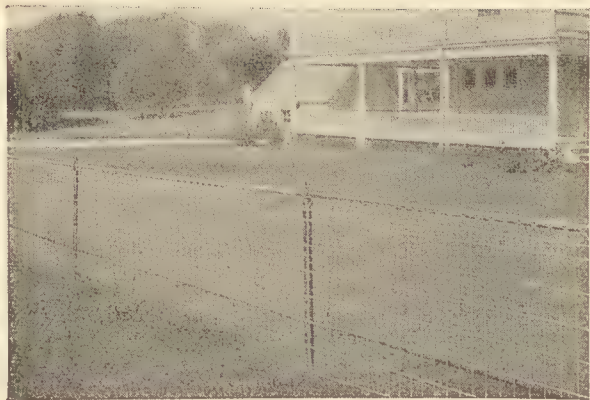
Quality of materials to be used as follows:

(a) Sheathing paper, or unsaturated felt, shall weigh not less than 6 pounds per 100 square feet. Felt to be that marked 28 on the felt makers' scale, first quality selected wool rag stock.

(b) The saturated felt shall be 32 inches in width, weigh not less than 15 pounds per 100 square feet, single thickness, and have not less than 140 per cent. saturation.

(c) Cement to be either best quality straight run coal tar pitch distilled from American coal tar, or best asphalt cement manufactured from natural lake asphalt. Not less than 120 pounds of coal tar pitch cement

(Continued on page 120.)

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TIN AND COMPOSITION ROOFING.

(Continued from page 118.)

or 170 pounds of asphalt cement to be used per 100 square feet of completed roof. Cement to have a melting point of not less than 135 degrees Fahrenheit.

(d) Slag or gravel shall be dry and free from all dust or dirt; and not exceed five-eighths inch or less than one-quarter inch in size. Not less than 300 pounds of slag or 400 pounds of gravel to be used per 100 square feet. In cold weather slag or gravel to be heated immediately before used, and applied while cement is hot.

(e) All metal connections to be of 16-ounce (or heavier) soft rolled copper. Outlets to be 16-ounce (or heavier) hard rolled copper.

We now proceed to consider tin roofing.

There are all sorts of tin plates upon the market, so that even an expert finds difficulty in distinguishing between them without submitting them to tests in the laboratory.

For roofing purposes both tin plate andterne plate are used. Tin plate consists of sheets of iron or steel which have been thin coated with tin by being dipped in a molten bath of that metal. Terne plate is a similar product, but the bath is not of tin, but of tin and lead mixed, the latter metal constituting from 75 to 90 per cent. of the whole. The sheets employed in the manufacture are known as "black plates," and are now commonly of steel, either Bessemer or open-hearth. Formerly iron was used.

Specifications for tin roof on boards, recommended by the committee on roofs and buildings, National Fire Protective Association. Condensed:

Roof incline. If flat seam, not less than one inch to foot. If standing seam, not less than three inches to foot.

Roof boards to be dry, seasoned matched boards, not less than one inch thick, not over seven inches in width. All joints well driven together, and to have at least two nails in each board to each rafter.

Sheathing paper. Over above boards lay one thickness of asbestos felt paper, weighing not less than 16 pounds per 100 square feet, lapping sheets two inches at the edges. Over above asbestos paper lay one layer of deadening wool felt, weighing at least eight pounds per 100 square feet. No nails to be driven permanently through the paper except those required to hold cleats in place.

Tin to be terne plate 14 inches by 20 inches, or 20 inches by 28 inches. For roof paper use I. C. or thicker; for gutters, valleys, down spouts, flashings, etc., use I. X. or heavier tin. Roll tin not to be used.

Flat seam roof to be applied in all cases where incline is less than three inches to foot, and in no case to have less than one inch thick incline to one foot, and hammered close when laid. Sheets to be 14 inches by 20 inches, laid single and painted one coat on under side. All cleats to be fastened to the sheathing boards, by cleats using three cleats to each sheet, two on the long side and one on the short side; cleats to be locked into

the seam, and fastened with two one-inch tinned barbed roofing nails.

Standing seam roof, the sheets to be fastened together in shop in long lengths true to line; cross seams well locked together and well soaked with solder. All standing seam roofing to be applied the narrow way, and to be held by cleats spread not over eight inches apart, locked into seam and fastened to roof boards by two one-inch barbed nails through each cleat, turn end of cleat well over the nails.

Cleats to be 1½ inches wide, made from I. X. terne plate.

Upper surface of tin to be carefully cleaned, and immediately painted and well rubbed in. Second coat to be applied two weeks later. No turpentine or patent drier to be used. Paint to be of pure metallic brown, pure red lead, or pure iron oxide as a pigment, mixed both with pure boiled linseed oil; litharge only as a drier.

Solder to be best grade guaranteed half and half solder; to be well sweated into all seams and joints.

Roofing is an important part of the building business, from the standpoint of fire protection. The great fire of Boston was spread by way of the roofs, and the same thing is happening every day.

We have described the two roofings, and given specifications for their approved applications. Something, however, remains to be added, if we are to obtain a full appreciation of our subject.

It is worth noting, at the start, that while the tar and gravel specifications provides a maximum incline, the tin specifications provides a minimum incline. This is due to the radical difference between the materials used. After heavy rains water will often be found resting in veritable lakes upon tar and gravel roofs; but that does not harm. The flatter this form of roof is laid, the better. Heat only softens it, and makes it cling to boards all the closer. The purpose of the free application of gravel or slag to surface is to key the tar, and immobilize it. These aggregates also serve, by their projections, to keep fallen brands from direct contact with the roof, and provide air interstices, air being a recognized excellent non-conductor.

A tin roof should be carefully laid so as to shed water freely. This is essential, otherwise roof is liable to corrode and weaken. Fallen brands come in direct contact with tin surface. Use of inferior fluxes may destroy plates, cause them to open, so as to allow passage ways for deleterious elements and even fire.

Cornices, if badly constructed, are a menace. If fire stops are omitted, a continuous cornice, more particularly of the hollow kind, offers a hidden fire-runway, and make a single risk a general risk. The average tar and gravel roof is surrounded three sides, and often all four sides, by a brick parapet, eliminating this particular danger.

Repairs and renewals, also, are important factors in the fire problem. Tin roofing needs careful painting every three years, the val-

leys, etc., every two years; delay or neglect may result in irreparable damage. Tar and gravel roofs, also, require periodical overhauls, but risks of neglect in this case are far less than with tin roofing.

The increasing use of soft coal, filling the air with sulphurous fumes, is a serious menace to some building materials, more particularly those of metal and some stones, which they disintegrate.

In the commercial struggle for existence, tin has been somewhat handicapped by the fact that it is a commodity, while tar and gravel and the various allied compositions are large specialties and vigorously pushed as such. The tin interests, however, have of late been putting upon the market some specialties of their own, and with fair prospects of success. Among these specialties may be mentioned a thin plate of iron or steel covered both sides with asbestos, dipped in a special preparation, and passed through dripping rollers under heavy pressure.

We have here taken no account of the many composition roofs upon the market. The number of these is growing. Many of them are admirable, and in large use. The Underwriters' laboratories have tested and approved some of them. We shall doubtless hear much more about these compositions in the near future. Subject is too large and varied to go into now.

One fact in connection with fire protection, as a whole, should be kept constantly in mind. While fireproofing in connection with skyscrapers is important, and fire-resistancy in relation to many fine buildings, is important—fire-retardation, throughout the entire municipal area, is all-important. To hold a fire where it originates, until the arrival of the professional fire-fighter, is the main consideration; and building ordinances are (or ought to be) framed, and should be interpreted, to this end.

We have now outlined, somewhat fully, the fundamental principles underlying the problem of fire-protection. We have impartially set forth, and examined, the various materials employed, and explained the standard methods of their application. We have expressed no personal preference of our own.—James Casey in "National Builder."

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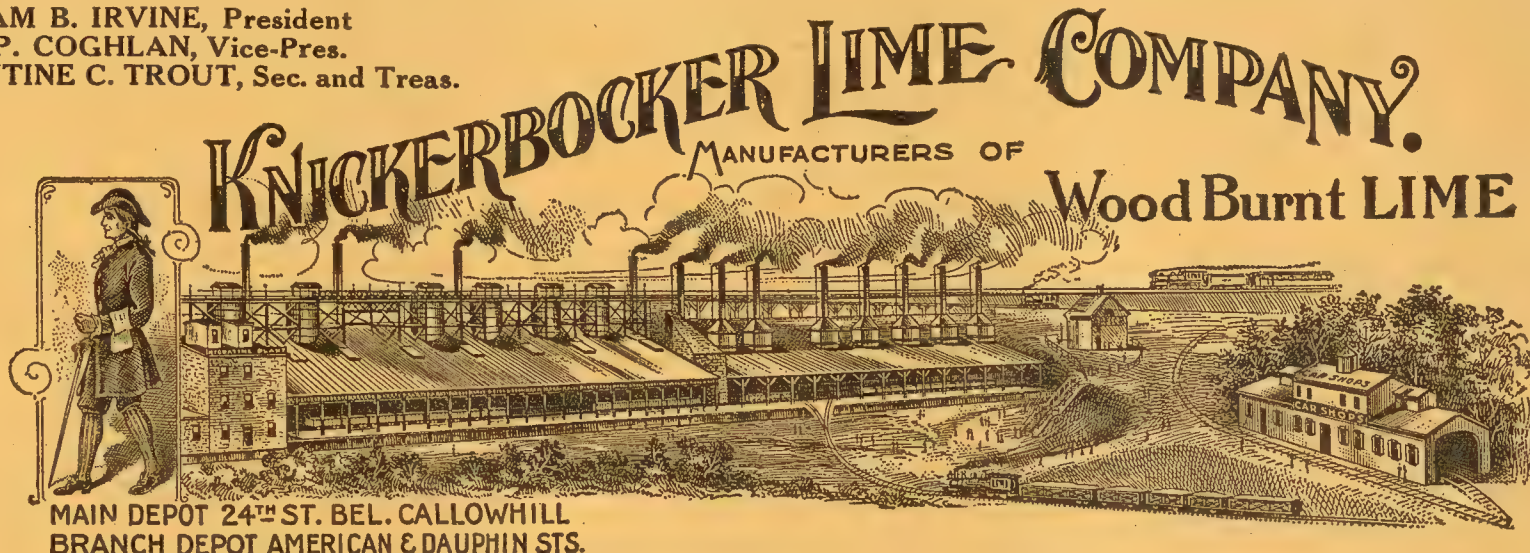
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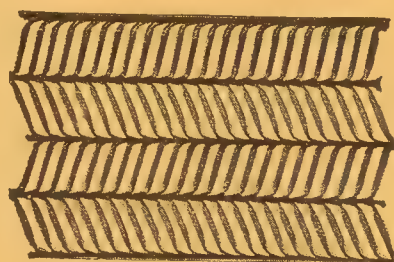
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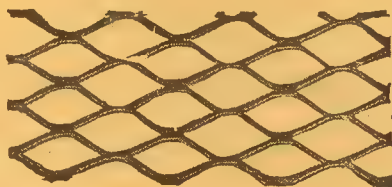


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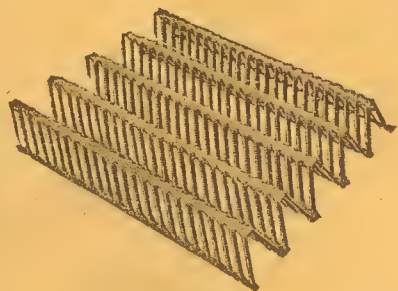
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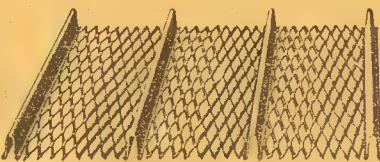


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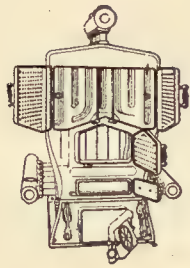
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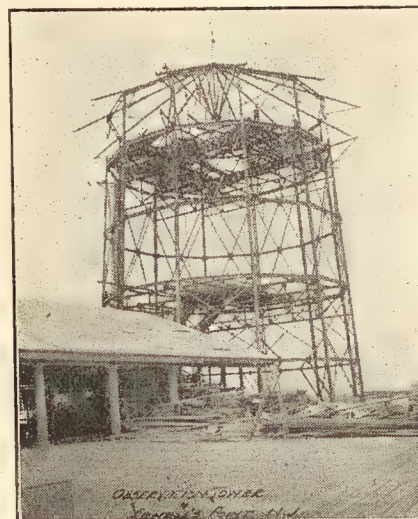
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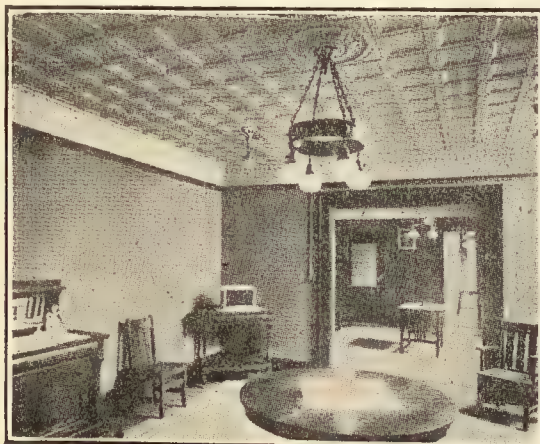


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Vol. XXIX., No. 8.

PHILADELPHIA, WEDNESDAY, FEBRUARY 25, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Picture Theatre, Fifty-second and Locust streets. \$25,000. Architects, Stuckert & Sloan, Crozer Building. Owner, Felt Amusement Co., Fifty-second street and Wyalusing avenue. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting. Architect ready for bids.

Warehouses (2), 118-20 Spruce street, and 113 Delancey street. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, Stohrer's Keystone Pickle Works, 118 Spruce street. Brick and reinforced concrete, 3 and 4 stories, 49x100 feet and 48x73 feet, slag roofs, electric lighting, steam heating, elevators. Architects taking bids due March 4th. The following are figuring: George Kessler Co., Drexel Building; Turner Concrete Steel Co., 1713 Sansom street; F. F. Wallace, 1210 Sansom street; Haibach Contracting Co., Twenty-sixth and Thompson streets; J. B. Flounders, 1329 Arch street; H. C. Dahl, 231 South Eighth street.

Church, 218 Coulter street, Germantown. Architect, C. Henry Wilson, 1130 Lombard street. Owner, Enon Baptist Church, on premises. Stone, 1 story, 40x70 feet, tin roof, steam heating, electric lighting. Architect taking bids due March 2nd. The following are figuring: W. J. Robinson, 1508 Lombard street; Joseph Trent, 1930 Montgomery avenue; William Chase & Sons, Torresdale, Philadelphia.

Residences (16), Fifty-fourth street and Walton avenue. \$56,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William L. Eliason, 4818 Florence avenue. Brick, 2 stories, 16x48 feet, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Factory Building, Alberta and Watts streets. Architect, J. D. Allen, 908 Chestnut street. Owner, R. M. Braithwait, 638 North Seventeenth street. Brick, 5 stories, 48x50 feet, slag roof (heating and light, reserved). Architect taking bids due March 2nd. The following are figuring: Ketcham & McQuaide, 1029 Brown street; Stocker & Hastings, 900 North Carlisle street; H. E. Baton, Tenth

and Sansom streets; Loos & Dothard, 1438 South Penn Square.

Store and Residence, Seventeenth and Christian streets. \$4,000. Architect, private plans. Owners, Baer & Snyder, 1539 Federal street. Brick, 3 stories, 16x55 feet, slag roof. Contract awarded to F. E. Wallace, 1210 Sansom street.

Office Building (alt. and add.), 1723 Ludlow street. Architect, private plans. Owner, Louis Wanner, Jr., 33 South Seventeenth street. Brick, 3 stories, 16x45 feet (heating, reserved). Contract to Stacy Reeves & Sons, 2011 Market street.

Factory, 206-08-10 South Twenty-fourth street. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, J. J. Greenberg, Morris Building. Brick, 4 stories, 61x230 feet, slag roof, electric lighting, steam heating. Architect has received bids.

Garage, Oak Lane, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street. Owner, name withheld. Stone and frame, 1½ stories, 20x24 feet, shingle roof, hot-water heating, electric lighting. Architect taking bids due February 23rd. The following are figuring: Specht & Sperry, Heed Building; John H. Dagny, Oak Lane; John Morrow, Oak Lane; C. L. Hemmerly, Oak Lane; Thomas Mathews & Son, 2236 North Hancock street; Fesmire & Mitchell, Glenside, Pa.

Church and Sunday School Building, Oak Lane, Pa. Architect, E. W. Thames, 316 Bullerling. Owner, Oak Lane Baptist Church, care of Rev. W. S. Catlett, 6701 North Sixth street. Stone, 2 stories, 63x130 feet, slate roof, steam heating, electric lighting, damp-proofing, metal ceiling. Architect taking bids due February 27th. Smith-Hardican Co., 1606 Cherry street; Alexander Chambley, 243 South Tenth street; William J. Gruhler, 219 East High street; John N. Gill & Co., Heed Building; A. R. Raff, 1635 Thompson street; H. E. Baton, Tenth and Sansom streets; Thomas C. Trafford, 1613 Sansom street; Specht & Sperry, Heed Building; John Morrow, Oak Lane, Pa.; A. Whitehead, 1624 Latimer street, are figuring.

Y. W. C. A., Allegheny avenue and Hancock street. Architects, Hewitt & Granger, Bullitt Building. Owner, Y. W. C. A., Eighteenth and Arch streets. Brick and terra cotta, fireproof, 114x130 feet, 6 stories, 3 wings, slate and slag roof (heating and lighting, reserved), elevators, damp-proofing, water-proofing, metal frames and sash, metal trimmings and doors, kalamein work, hollow tile and gypsum block, enamel brick. Architects taking bids due February 28th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; Cramp & Co., Deckla Building; J. R. Wiggins Co., Heed Building; Charles Gilpin, Harrison Building; Stacy Reeves & Sons, 2011 Market street; F. B. Davis, 35 South Seventeenth street; Roydhouse-Arey Co., Fidelity Building; Charles McCaul Co., Tenth and Sansom streets; Thomas Seeds, Jr., 1207 Race street; Thomas Little & Sons, 1723 Moravian street; Doyle & Co., 1518 Sansom street; B. E. Baton, Tenth and Sansom streets; Bottoms & Sons, 41 South Fifteenth street.

Residence (alt. and add.), 5412 Chester avenue. Architect, F. G. Caldwell, Stephen Girard Building. Owner, E. F. Hoag, 1836 South Fifty-eighth street. Brick, 2 stories, 18x78 feet, slag roof, electric lighting (heating, reserved). Architect has received bids.

Hospital (add.), Thirty-sixth and Spruce streets. Architects, Brockie & Hastings, 1713 Sansom street. Owners, University of Pennsylvania, on premises. Brick, stone and steel, fireproof, 3 stories and basement, 45x105 feet, slate roof (central plant for heating, electric lighting, reserved), elevators, metal sash and frames. Architects have received bids.

Office Building, Juniper and Chestnut streets. Architect, Horace Trumbauer, Land Title Building. Owner, P. A. B. Widener, Land Title Building. Stone, brick, steel and concrete, fireproof, 18 stories, 150x199 feet, slag roof, electric light, steam heat, etc. Architect has received bids.

Garage, 226 West Willow Grove avenue. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, J. E. Carey, on premises. Stone, 1 story, 16x23 feet, slate roof,

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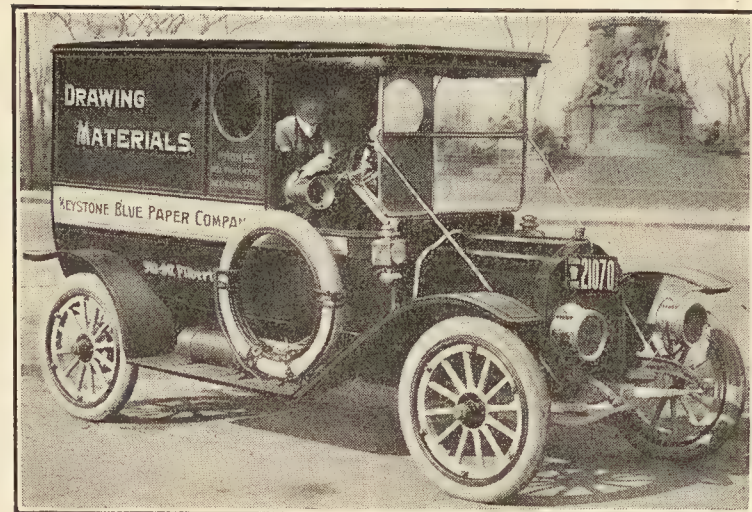
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electric lighting. Architect has received bids.

Stores and Apartments, Firth and Pine streets. Architect, F. N. Greisler, 2560 Frankford avenue. Owner, name withheld. Brick, 3 stories, 16x85 feet, slag roof, hot-water heating, electric light, plans in progress.

Residence, Sixty-fourth street and Church road, Overbrook, Pa. \$18,000. Architect, C. Barton Keen, Bailey Building. Owner, A. Helmar Englund, Seventeenth and Cambria streets. Brick, 2½ stories. Plans in progress.

Stores (2), Thirteenth street and Germantown avenue. Architect, George S. Idell, 34 South Sixteenth street. Owner, name withheld. Brick, 2 and 3 stories, slag roof, hot-water heating, electric lighting. Plans in progress.

Store (add.), Germantown and Cheltenham avenues. Architect, George S. Idell, 34 South Sixteenth street. Owners, Smyser & Scott, Germantown and Cheltenham avenues. Brick, 3 stories, slag roof, electric lighting. Plans in progress.

Picture Theatre, Fifty-second street and Greenway avenue. \$15,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, John J. Conner, Fifty-second and Regent streets. Brick, terra cotta and concrete, fireproof, 1 story, 43x140 feet, slag roof, steam heating, electric lighting. Owner is ready for sub-bids.

Residence, Roxborough, Philadelphia. Archi-

tect, H. L. Reinhold, Jr., 1309 Walnut street. Owner, John Beehler, 3041 North Fifteenth street. Brick, 2½ stories, 30x36 feet; slate roof, hot-air heating. Owner taking bids. E. H. Sturts, 2614 Ridge avenue, and George A. Boyd, Twenty-fifth street and Willow Grove avenues, are figuring.

Saloon (alt. and add.), 5729 Woodland avenue. Architect, Charles E. Oelschlager, Harrison Building. Owner, Thomas J. Brady, on premises. Brick, 3 stories, slag roof, steam heating, electric lighting, metal ceilings, tile work. Architect taking bids, due February 28th. E. J. Kreitzburg, 1345 Arch street; D. F. Wholey, 1109 Indiana avenue; A. Whitehead, 1624 Latimer street; Frank Lucci, 1345 Catharine street, are figuring.

Residence, Latham Park, Pa. Architect, Ralph E. White, Pennsylvania Building. Owners, William L. Elkins Estate, Land Title Building. Stone and plaster 2½ stories, 28x40 feet, wing 14x27 feet, shingle roof, hot water heat, electric light. Architect taking bids, due March 2nd. A. Whitehead, 1624 Latimer street; Sprecht & Sperry, Heed Building, and W. H. Eddleman, 453 Green lane, are figuring.

Store and Hall, 5935 and 37 Haverford avenue. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner's name withheld. Brick 2 stories, 40x80 feet, slag roof, steam heating, electric light. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt and add.), Chestnut Hill, Pa. Architect, Albert Kelsey, Perry Building. Owner, Mrs. William E. Goodman, 5 East Chestnut lane. Stone, 2 stories, 30x20 feet, slate and tin roofs, electric lighting, parquet floors. Contract awarded to George S. Roth & Sons, 230 East Gravers' lane, who are taking sub-bids.

Residence, Somerset avenue, Chestnut Hill, Pa. \$30,000. Owner, Edgar H. Butler, 435 Chestnut street. Stone, 2½ stories, slate roof, hardwood floors, electric lighting (heat, reserved). Contract awarded to A. Whitehead, 1624 Latimer street.

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PENNSYLVANIA

Construction News

Residence, Hanover, Pa. \$12,000. Architect, Robert A. Stair, Jr., York, Pa. Owner, D. E. Winebrenner, Jr., Hanover, Pa. Brick, 2½ stories, shingle roof, steam or hot-water heating, electric lighting, hardwood floors. Owner is taking bids.

Store and Apartments, York, Pa. \$20,000. Architect J. A. Dempwolf, York, Pa. Owner, M. W. Haines, York, Pa. Brick and terra cotta, 3 stories, 30x140 feet, felt roof, steam heating, electric lighting. Plans in progress.

Hotel, York, Pa., \$18,000. Architect, J. A. Dempwolf, York, Pa. Owner, E. T. Brooks, York, Pa. Brick, 4 stories, 30x160 feet, felt roof, steam heating, electric lighting. Plans completed.

Residence, Villa Nova, Pa. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, J. R. Maxwell, Jr., Morris Building, Philadelphia. Concrete, 2½ stories, tile roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Factory, Eighth and Commerce streets, Darby, Pa. Architect, H. M. Pedrick, Darby, Pa. Owner, Eureka Sanitary Brush Co., on premises. Brick, 2 stories, slag roof, electric lighting (heat, reserved). Plans in progress. Owner will take bids.

Residence, Media, Pa. Architects, Price & McLanahan, 1416 Walnut street, Philadelphia. Owner, Dr. O. F. Janney, Media, Pa. Hollow tile and plaster, 2½ stories, 36x50 feet, slate roof, electric lighting, hot-water heating, hardwood floors. Architects have received bids.

Stores, Flats and warehouse, Pottstown, Pa. Architect, E. F. Bertolet, West End Trust Building, Philadelphia. Owner, H. D. Saylor, Pottstown, Pa. Brick and terra cotta, 3 stories, asbestos roof, steam heating, electric lighting, hardwood floors. Plans completed. Architect will take bids in a few days.

Hospital, Scranton, Pa. \$75,000. Architect, George I. Lovatt, 418 Walnut street, Philadelphia. Owner, St. Mary's Hospital (Keller Memorial), Scranton, Pa. Brick, stone and steel, fireproof, 3 stories, 150x162 feet, slate and slag roof, electric lighting, steam heating, metal ceiling, water-proofing, concrete and hollow tile fire-proofing. Architect ready for revised bids.

Residences (2), York, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Adam M. Smyser, York, Pa. Brick and frame, 2 stories, 26x36 feet each, shingle roof, electric lighting, hot-water heating. Owner is taking sub-bids.

Residence Northside, Pa. \$6,000. Architect,

C. J. Young, 520 Washington street, Reading, Pa. Owner, Klahr, Northside, Pa. Brick, 2½ stories, 28x30 feet, slate roof, hot-air heating, combination lighting. Plans in progress.

Residence, Northside, Pa. \$6,000. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, A. G. Wattman, Reading, Pa. Brick, 2½ stories, 28x30 feet, hot-air heating, combination roof. Plans in progress.

Bunaglow, Phoenixville, Pa. \$3,800. Architect, J. V. Poley, Royersford, Pa. Owner, I. M. Buckwalter, 202 Washington avenue, Phoenixville, Pa. Brick, 1½ stories, 25x41 feet, shingle roof, hot-air heating, combination lighting. Architects taking bids. The following are figuring: J. Mowry, Royersford, Pa.; J. Keiter, Spring City, Pa., and J. Keenen, Phoenixville, Pa.

Theatre and Dance Hall (Alt.), Tenth and Sprung streets, Reading, Pa. \$15,000. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, Julius G. Hausen, Tenth and Sprung streets, Reading, Pa. Brick and stone, 3 stories, 40x100 feet, slag and slate roof, steam heating, combination lighting. Architect will be ready for bids next week.

Houses (3), Reading, Pa. \$3,000 each. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, W. Irvin Patteigie, Reading, Pa. Brick and frame, 3½ stories, hot-air heating, combination lighting. Plans in progress.

Model Workmen's Houses (semi-detached) (12), Fourteenth and Perry streets, Reading, Pa. \$3,200 each. Architect, Muhlenberg Bros., 511 Penn street, Reading. Owner, Muhlenberg Estate, Reading, Pa. Brick, 2 stories, slate roofs, hot-air heating, combination lighting. Architects have received bids.

Houses (3), Royersford, Pa. \$4,000 each. Architect, J. V. Poley, Royersford, Pa. Owner, J. Vernon Long, Church street, Royersford, Pa. Brick, 2½ stories, 16x42 feet, tin roof, hot-air heating, gas lighting. Bids will be taken in a week.

Residence (add. and imp.), Schwenksville, Pa. Architect, J. V. Poley, Royersford, Pa. Owner, Dr. H. P. Kellery, County, Treasurer, Norristown, Pa. Cut stone and brick, 3½ stories, 16x30 feet, slate roof, steam heat, acetylene lighting. Bids will be taken in one week.

Factory (add.), Lower End Spring City, Pa. \$12,000. Architect, J. V. Poley, Royersford, Pa. Owner, Spring City Knitting Co., Spring City, Pa. Brick, 3½ stories, 45x67 feet, tin roof, steam heating, electric lighting. Architect has received bids.

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Double Houses (2), Collegeville, Pa. \$3,500 each. Architect, J. V. Poley, Royersford, Pa. Owner, F. J. Clamer, Collegeville, Pa. Hollow tile, 3½ stories, 32x40 feet, slate roof, steam heating, combination lighting. Architect taking bids. E. S. Poley, Trappe, Pa., is figuring.

Double Houses (2), Collegeville, Pa. \$3,500 each. Architect, J. V. Poley, Royersford, Pa. Hollow tile, 3½ stories, 32x40 feet, slate roof, steam heating, combination lighting. Architect taking bids. E. S. Poley, Trappe, Pa., is figuring.

Double House, Yerkes, Pa. \$3,200. Architect, J. V. Poley, Royersford, Pa. Owner, George Waelfer, Yerkes, Pa. Frame, 3½ stories, 32x40 feet, shingle roof, steam heating, electric lighting. Contract awarded to E. S. Poley, Trappe, Pa.

Department Store, Reading, Pa. \$50,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, name withheld. Brick, steel and terra cotta, 6 stories and basement, 60x60 feet, slag roof, steam heating, electric lighting, maple floors. Preliminary plans in preparation.

Church and Sunday School Building, Church street, Reading, Pa. \$18,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Peter's Reformed Congregation, Rittersville, Pa. Brick, 1 story and basement, 50x90 feet, slate roof, vapor heating, electric lighting, maple floors. Plans in preparation.

School, Steelton, Pa. Architect, Charles Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Steelton, Pa. Brick, 2 stories and basement, 43x100 feet, slag roof (heat and light, reserved), iron doors and frames, steel rolling partitions. Owner taking bids due March 2nd. F. Roe Searing, Perry Building, and F. A. Havens, 845 North Nineteenth street, Philadelphia, are figuring.

Residence, Jenkintown, Pa. Architects, Druckenmiller & Williams, Land Title Building. Owner, Dr. A. C. Heritage, Jenkintown, Pa. Stone, 2½ stories, 27x69 feet, slate roof, hot-water heating, electric lighting. Architects taking bids due March 2nd. The following are figuring: George Benninghoff, McKinley, Pa.; J. W. Stevens, Wyncote, Pa.; Specht & Sperry, Heed Building; E. D. Lever, Abington, Pa.; G. E. Blake, Glenside, Pa.; Krewson Bros., Edge Hill Post Office, Pa.

Garage, Ardmore, Pa. Architect, J. S. Norton, Bryn Mawr, Pa. Owner, David Dallas, Eleventh and Arch streets. Brick, 2 stories, 40x200 feet, slag roof, steam heating, electric lighting, gasoline storage. Plans in progress. Owner will take bids about April 1st.

School, Collingdale, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia.

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Owner, School Board of Borough of Collingdale, Delaware County, Pa. Brick, 1 story, 51x91 feet, slag roof, hot-air heating. Architect ready for bids.

Schools (2), Meadville, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, Board of Education, Meadville, Pa. Brick, 2 stories, 100x66 feet and 105x65 feet, slate roofs, Plenum system of heating, electric lighting. Plans in progress. Bids in about six weeks.

High School, Meadville, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, Meadville School Board. Brick, 2 stories and basement, 72x188 feet, slate roof, Plenum system of heating, electric lighting. Plans in progress. Bids will be taken in about six weeks.

High School, Lock Haven, Pa. Architect, E. E. Joralemon, Buffalo, N. Y. Owner, Board of Education, care of F. H. Gage, Lock Haven, Pa. Stone and brick, fireproof, 3 stories and basement, 105x127 feet, slag roof (heat and light, reserved), water-proofing, metal lath, hollow tile and gypsum block, metal frame and sash. Owners taking bids due March 7th. Henry L. Brown, 1714 Sansom street, Philadelphia, is figuring.

School, Harrisburg, Pa. Architect, C. Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Harrisburg, Pa. Brick and stone, fire proof, 2 stories and basement, 115x170 feet, slag roof (heating and lighting, reserved, separate bids), wire lath, metal frames and sash, damp-proofing. Owner taking bids due March 2nd. The following are figuring: Charles McCaul & Co., Tenth and Sansom streets, and F. Roe Searing, Perry Building, both of Philadelphia; Fink & Seidel, Colonial Trust Building, Reading, Pa.; Charles Strayer, Union Trust Building; John Myers, 14 North Seventeenth street; C. H. Miller, 11 North Thirteenth street; Augustus Wildman, 2108 North Third street; Stapf & Benfer, 23 South Third street, and E. N. Lebo, 1922 Berryhill street, all of Harrisburg, Pa.

Residences (2), Ardmore, Pa. Architect, H. L. Reinhold, 1309 Walnut street. Owner, John W. Brook, 147 Cricket avenue, Ardmore, Pa. Brick, 2 stories, 16x30 feet each, slag roof, hot-air heating. Owner taking sub-bids.

Church (completion), Bryn Athyn, Pa. Architects, Cram & Goodhue, 2 West Forty-seventh street, New York City. Owner,

Church of New Jerusalem, on premises. Stone, fireproof, 1 story, 100x150 feet, slate roof, steam heating, electric lighting, water-proofing. Architects taking bids due March 9th. The following are figuring: J. S. Cornell & sons, Land Title Building; F. L. Hoover & Sons, 1023 Cherry street; A. Raymond Raff, 163 5Thompson street; F. A. Havens & Co., 849 North Nineteenth street, Philadelphia.

Residence, Ardmore, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, H. Boyer, Ardmore, Pa. Frame, 2½ stories, 35x45 feet, shingle roof, hot water heating, electric light. Architects taking bids, due March 2nd. F. T. Mercer Co., 1706 Delancey street; G. D. Turner, Upper Darby, Pa.; E. O. Lobb, Llanerch, Pa.; C. C. Pace, Merion, Pa.; C. T. Moore, Lansdowne, Pa.; H. G. Carson, 205 South Forty-second street, Philadelphia, are figuring.

Pennsylvania

Contracts Awarded

Department Store (alt. and add.), Cumberland street. \$20,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Haak Bros., Lebanon, Pa. Brick, 2 stories, 66x200 feet, cary's roof, steam heating, combination lighting, maple floors. Contract awarded to J. H. Greiner, Lebanon, Pa.

Residence (alt. and add.), Merion, Pa. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Nicholas Thouron, Merion, Pa. Stone, frame and stucco, 2½ stories, slate roof (electric work, reserved). Contract awarded to Charles C. Pace, Merion, Pa.

Residence (remodeling), Villa Nova, Pa. Architects, Baily & Bassett, 421 Chestnut street. Owner, Howell Lloyd, Wynnewood, Pa. Stone, 3 stories, consists of general remodeling. Contract awarded to J. D. Lengle, Wayne, Pa.

Garage, Radnor, Pa. \$4,000. Architects, Harris & Rush, 130 South Fifteenth street. Owner, Oswald Chew, 1011 Chestnut street. Stone, 1½ stories, 21x47 feet, shingle roof, hot-water heating, electric lighting, gasoline pump and storage. Contract awarded to Pomeroy Construction Co., 1609 Ranstead street.

NEW JERSEY

Construction News

School (add.), Ventnor, N. J. \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Ventnor, N. J. Brick and terra cotta, 4 stories, 55x80 feet, slate roof, steam heating, electric lighting. Plans in progress.

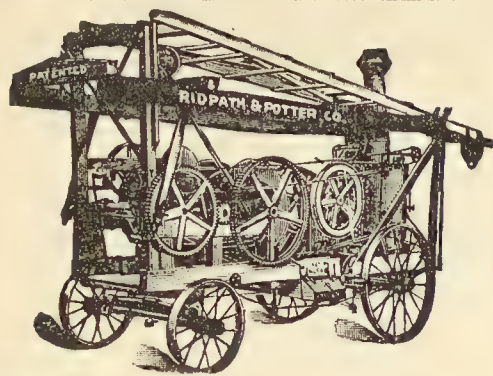
Residence, Ventnor, N. J. \$8,000. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, Thomas Sheen, Sheen Building, Atlantic City, N. J. Brick and stucco, 2½ stories, 26x40 feet, slate roof, hot-water heating, electric lighting. Plans in progress. Architect will take bids about April 1st.

Residence, Atlantic City, N. J. \$2,500. Architect, W. S. Hewitt, Bartlett Building,

Atlantic City, N. J. Owner, C. T. Hering, 31 South Aberdeen Place, Atlantic City. Brick, 2 stories, 30x41 feet, slag roof, hot-water heating, electric lighting. Plans completed. Owner ready for bids.

Bungalows (3), Ventnor, N. J. \$2,500 each. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, Thomas Sheen, Sheen Building, Atlantic City. Frame, 1 story, 24x32 feet, asphalt shingle roofs, electric lighting. Plans in progress. Architect will take bids in one week.

Residence, Ventnor, N. J. \$5,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Pennsylvania Medical



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Missionary Society, care of Mrs. Haskell, Merion, Pa. Frame, 2 stories, 24x30 feet, slate roof, hot-water heating, electric lighting. Plans in progress.

Public Comfort Station, Atlantic City, N. J. \$10,000. Architects, Stout & Riebenack, Bartlett Building, Atlantic City, N. J. Owner, City of Atlantic City. Concrete, 1 story, hot-water heating, electric lighting, tile and marble work. Plans about completed. Architects will soon take bids.

Residences (3), Ventnor, N. J. Architects, Stout & Riebenack, Bartlett Building, Atlantic City, N. J. Owner, Almarin Mariston, Ventnor, N. J. Brick, 2½ stories, 27x55 feet each, slate roof, hot-water heating, electric lighting. Owner and architects taking bids.

Bungalow, Haddonfield, N. J. Architect, private plans. Owner, Charles Hollaway, Haddonfield, N. J. Frame, 1½ stories, shingle roof, hot-air heating. Owner is ready for bids.

Residences (2), Haddonfield, N. J. Architect, private plans. Owner, W. S. Capern, Haddonfield, N. J. Stone and frame, 2½ stories, shingle roofs, hot-water heating, electric lighting. Owner is taking sub-bids.

Residence, Haddonfield, N. J. Architect, private plans. Owner, J. Stover, care of builder. Frame, 2½ stories, 22x28 feet, slate roof, hot-water heating, electric lighting. Builder E. F. Webster, Haddonfield, is taking sub-bids.

Residence and Garage, Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Harry Stille, Woodbury, N. J. Hollow tile and plaster, 2½ stories, shingle roof, hot-air heating, electric lighting, hardwood floors. Architect taking bids due February 26th. The following figuring: Joseph Best, Woodbury, N. J.; W. D. Fletcher, Woodbury, N. J., and Carter Bros., Pitman, N. J.

Residence (alt. and add.), Princeton, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Judge E. Ambler Armstrong, Princeton, N. J. Stone, 2½ stories, slate roof, electric lighting. Plans in progress.

Residence, Cape May, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, J. Tatnall Lea, Stephen Girard Building, Philadelphia. Hollow tile and plaster, 2½ stories, 35x47 feet, shingle roof, electric lighting, hot-air heating, oak. Architects taking revised bids. Sherman

Sharp, Cape May, N. J., is figuring (only bidder).

Library (add.), Trenton, N. J. \$50,000. Architect, Edward L. Tilton, 32 Broadway, New York City. Owner, City of Trenton, N. J. Stone, 2 stories, 75x30 feet, slag roof, steam heating, electric lighting. Owners taking bids due February 27th. F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Church, Hopewell, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Presbyterian Church, Hopewell, N. J. Brick, and stone trimmings, 1 story, 40x90 feet, slate roof, steam heating, electric lighting. Architects taking bids due February 27th. The following are figuring. C. W. Mather & Sons, Burton & Burton and J. & J. H. Morris all of Trenton, N. J.; J. S. Rogers Co., Moorestown, N. J.; Mathews Construction Co., Princeton, N. J.; S. Wiley, I. H. Clayton and Elwood Ivins, all of Trenton, N. J.

Store (add.), 545 South Broad street, Trenton, N. J. Architect, W. A. Poland, 9 South Stockton street, Trenton, N. J. Owner, James Bowden, Trenton, N. J. Brick, 3 stories and basement, 50x26 feet, slag roof, steam heating, electric lighting, concrete, steel, metal ceilings. Architect is ready for bids.

Theatre, Meade and North Clinton avenues, Trenton, N. J. \$18,000. Architect, J. Osborne Hunt, 206 East Hanover street, Trenton, N. J. Owner, Hildinger, Bishop & Lamont, 118 Factory street, Trenton, N. J. Brick, steel and concrete, 1 story, 50x120 feet, slag roof, steam heating, electric lighting, reinforced concrete. Architect ready for bids.

Residence, Lawrenceville road, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John L. Brock, Trenton, N. J. Hollow tile and stucco, 2½ stories, 32x58 feet, slate roof, hot-air heating, electric lighting, hardwood floors. Architects ready for bids.

Residence (alt. for Apartments), Trenton, N. J. \$10,000. Architect, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, Mrs. Thomas Carney, 221 North Warren street. Brick, 3 stories, 44x82 feet, slag roof, steam heating, combination lighting. Architects will take bids in a few days.

Residence, Trenton, N. J. \$5,000. Architects, Hill & Pette, 40 East State street, Trenton, N. J. Owner, H. Humphreys, Cadwalader Place, Trenton, N. J. Brick, 2

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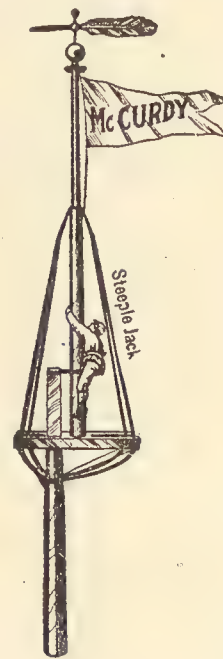
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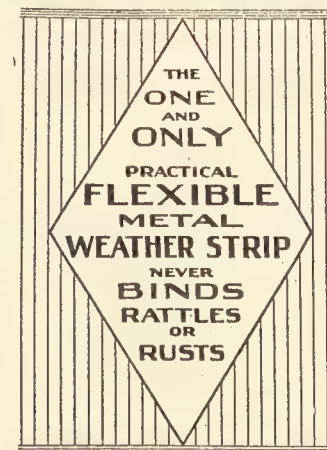
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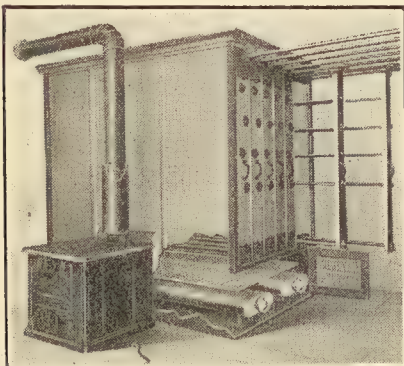
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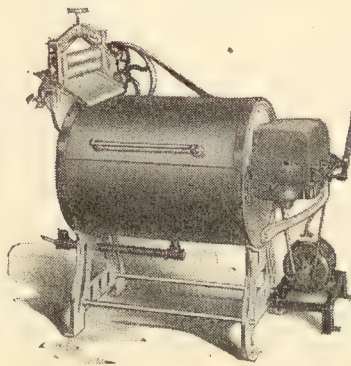
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stories, 24x30 feet, slate roof, hot-water heating, electric lighting. Architects will take bids in a few days.

Flats (8), Atlantic City, N. J. Architect, F. A. Hayes, 1524 Chestnut street. Owner, name withheld. Brick and frame, 2 stories, 16x32 feet, slag roof, hot-water heat, electric light. Plans in progress. Bids in about 10 days.

Hospital (alts.), Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owners, Board of Freeholders, care of F. M. George, Court House, Camden, N. J. Consists of interior alterations. Revised plans in progress.

Bank Building, Swedesboro, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Swedesboro Trust Company, Swedesboro, N. J. Stone, 2 stories, 40x43 feet, slag roof, steam heating, electric lighting, tile floors, vault. Plans in progress.

Water System, Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owners, Camden County Tuberculosis Sanitarium, care of F. W. George, Court House, Camden, N. J. Reinforced concrete building, 1 story, 16x18 feet, gas engine, electric lighting. Owners taking bids, due March 9th.

Hospital, Vineland, N. J., \$25,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, New Jersey Training School, Vineland, N. J. Hollow tile and stucco, 2 stories, 93x120 feet, slag roof, electric lighting, steam heating. Owners taking bids, due March 4th. The following are figuring: Monaghan & Losse, 218 South Twelfth street; Berry-Goodwin Company, Drexel Building; F. Roe Searing, Perry Building; Alex. Chambley, 243 South Tenth street; Metzger & Wells, Heed Building, all of Philadelphia, Pa.; George Shaner, Palmyra, N. J.; L. M. Schaible, Vineland, N. J.; Walter Foulk, Vineland, N. J.; J. W. Draper, 436 Haddon avenue, Camden, N. J.; George Bachmann, 19 North Thirtieth street, and D. E. Boyer Company, 523½ Arch street, Camden, N. J.

Library (add.), Trenton, N. J., \$50,000. Architect, Edward L. Tilton, 32 Broadway, New York City. Owner, City of Trenton, N. J. Stone, 2 stories, 75x30 feet, slag roof, steam heating, electric lighting. Owners taking bids, due February 27th. F. A. Havens Co., 845 North Nineteenth street, and P. J. Hurley, 1233 Cherry street, Philadelphia, are figuring.

New Jersey

Contracts Awarded

Factory (alt. and add.), Cass street, Trenton, N. J. \$40,000. Architect, J. Osborne Hunt, 206 East Hanover street, Trenton, N. J. Owner, Magnetic Pigment Co., Baltimore, Md. Steel and brick, 40x40 feet and 40x80 feet, slag roof, steam heat, electric light, reinforced concrete. Contract awarded to Howard Parrish, Trenton, N. J.

Apartment House, South Massachusetts avenue, Atlantic City, N. J. \$11,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Miss Gertrude Koetsier, care of architect. Brick and hollow tile, 3 stories, 24x71 feet, slag roof, hot-water heating, electric lighting. Contract awarded to Thompson Bros., 14 South Ohio avenue, Atlantic City, N. J.

Apartment House, Rhode Island avenue, Atlantic City, N. J. \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Pacific Realty Co., Atlantic City, N. J. Brick, stone trimmings, 3 stories, slag roof, hollow tile fire-proofing, electric lighting, hot-water heating. Contract awarded to

Mathis & Son, Bartlett Building, Atlantic City, N. J.

Hotel, Delaware and Atlantic avenues, Atlantic City, N. J. Architect, Lewis Barket, Bartlett Building, Atlantic City, N. J. Owner, Miss R. Connell, care of architect. Brick, 3 stories, 36x93-feet, slag roof, electric lighting, hot-water heating, metal lath. Contract awarded to W. Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

School, Absecon, N. J. \$20,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Absecon, N. J. Brick, 2 stories, 50x85 feet, slate roof, electric lighting. Contract awarded to James Yates, Pleasantville, N. J.

MISCELLANEOUS CONSTRUCTION NEWS

Theatre, Apartments and Stores, New Haven, Conn. Architect, W. Albert Swasey, 47 West Thirty-fourth street, New York City. Owners, New Haven House Co., New Haven, Conn. Brick and terra cotta, fireproof, 4 stories, 110x181 feet, slag roof, steam heating, electric lighting, kalameain doors, metal lath. Architects taking bids due February 24th. Charles McCaul Co., Tenth and Sansom streets, Philadelphia, is figuring.

Apartment and Store Building, Hagerstown, Md. Architects, Mack & Kountz, Hagerstown, Md. Owner, Maryland Realty Co., Hagerstown, Md. Brick, fireproof, 7 stories and basement, 50x157 feet, slag roof, electric lighting, hot-water heating, plaster block partitions, elevator, composition floors, metal lath. Architects taking bids due February 26th. Pomeroy Construction Co., 1609 Ransted street, Philadelphia, is figuring.

Bank Building, Omaha, Neb. Architect, F. A. Henninger, Omaha, Neb. Owner, United States National Bank, Omaha, Neb. Stone and brick, fireproof 4 stories, 74x110 feet, slag roof, steam heating, electric lighting. Architect taking bids due March 2nd. J. E. & A. L. Pennock, Land Title Building, Pa., is figuring.

High School, Washington, D. C. \$600,000. Architect, Snowden Ashford, Washington, D. C. Owner, District of Columbia, District Commissioners. Brick, stone and concrete, 4 stories, 373x195 feet, tile and composition roof, enameled bricks, water-proofing, steel casement windows, electric lighting, steam heating, marble interior and elevators. Owners taking revised bids due March 2nd. J. W. Emery, 1524 Sansom street, Philadelphia, is figuring, in addition to those previously reported.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Harry Gordon (O), 70 East Washington lane. H. E. Baton (C), Tenth and Sansom streets. Cost, \$5,000. Garage, 1 story, 60x80 feet, 70 East Washington lane.

F. J. Blatz (O), 4923 North Lawrence street. Cost, \$8,000. Brick, 2 stories, 16x28 feet, 417 Ashdale street.

Union Petroleum Co. (O), 135 South Second street. Cost, \$5,500. Office, brick, 2 stories, 24x40 feet, Mifflin and Water streets.

Michael Duva (O), 324 Harvey street. Cost, \$2,500. Store and hall, brick, 2 stories, 30x24 feet, 4153 Gusson street.

F. Pazzillo (O), 3356 Almond street. Cost, \$2,600. Two dwellings, brick, 2 stories, 14x28 feet, 3346 Almond street.

George H. McCracken (O), 2538 West Lehigh avenue. Cost, \$48,000. Thirty-two dwellings, brick, 2 stories, 16x45 feet, 3000 North Bromley street. Cost, \$4,000. Two stores and dwellings. Cost, \$48,000. Thirty-two dwellings. Cost, \$4,000. Two dwellings.

Ralph Goeltman (O), 421 Green street. W. H. Eddleman (C), 453 Green lane. Cost, \$1,200. Garage, stone, 1 story, 50x50 feet, 421 Green street.

Kapnek & Hamilton (O), Sixteenth and Lombard streets. Cost, \$6,500. Saloon and restaurant, brick, 2 stories, 36x48 feet, Sixteenth and Lombard streets.

George W. Blabon Co. (O), Twenty-first street and Hunting Park avenue. William Steele & Sons Co. (C), Sixteenth and Arch streets. Cost, \$42,000. Manufacturing

plant, brick, 5 stories, 43x96 feet, Twenty-first street and Hunting Park avenue.

Paul J. Snyder (O), Bailey Building. Cost, \$5,000. Stone crusher, brick, 1 story, 30x40 feet, Penn street and Belfield avenue.

Samuel Fryman (O), 718 South Third street. David Goldstein (C), Sixth and Jackson streets. Cost, \$7,200. Three dwellings, brick, 3 stories, 14x24 feet, 406 Federal street. Cost, \$4,800. Two stores and dwellings.

Manayunk Realty Co. (O), Real Estate Trust Building. James G. Doak Co. (C), Crozer Building. Cost, \$73,000. Brick, 1 story, 184x55 feet, Main and Carson streets.

Finance Co. (O), 1430 South Penn Square. James G. Doak & Co. (C), Crozer Building. Cost, \$400,000. Office Building, brick, 20 stories, 92x92 feet, 1420 South Penn Square.

G. W. Blabon Co. (O), Nicetown, Pa. William Steele & Sons Co. (C), Sixteenth and Arch streets. Cost, \$3,600. Factory, brick, 2 stories, 24x30 feet, Nicetown, Pa.

Frank Williams (O), 1432 Wolf street. Dwellings, 2 stories, 15x32 feet, Fifty-eighth and Catherine streets. Cost, \$73,200.

I. Woogman (O), 720 Morris street. Cost, \$7,000. Two stores and dwellings, brick, 16x30 feet, 719 Fairmount avenue.

Bergner & Engel Brewing Co. (O), Thirty-second and Master streets. E. E. Hollenback (C), Fifteenth and Race streets. Cost, \$3,600. Brewery, Thirty-second and Master streets.

Alterations and Additions

L. Murry (O), 50 South Sixtieth street. F. Krautziger (C), 5741 Chestnut street. Cost, \$2,500. Store and dwelling, 52 South Sixtieth street.

S. Jakob (O), 2405 Kensington avenue. B.

Bornstein (C), 412 South Fifth street. Cost, \$1,750. Store, 2405 Kensington avenue.

Harrison Bros. (O), Thirty-fifth street and Gray's Ferry road. Steward & Stevens (C), Ninth street and Montgomery avenue. Cost,

\$1,300. Manufacturing, Thirty-fifth street and Gray's Ferry avenue.

W. Caldwell (O), 3128 North Ninth street. Cost, \$2,200. Manufacturing, Susquehanna and Trenton avenues.

Philadelphia Felt Co. (O), Frankford, Pa. J. A. Hand (C), 8029 Frankford avenue. Cost, \$3,000. Mill, Frankford, Pa.

Philadelphia Rapid Transit Co. (O), Eighth and Dauphin streets. Cost, \$2,200. Freight station, Eleventh street and Susquehanna avenue.

Zora Gubzian (O), 119 South Forty-sixth street. Harry Deveitian (C), 38 North Sixtieth street. Cost, \$800. Store and dwelling, 44 South Sixtieth street.

H. H. Seip Manufacturing Co. (O), Sixth street and Columbia avenue. Badenhansen Co. (C), 1429 Chestnut street. Cost, \$900. Boiler house, 1716 Randolph street.

Rev. E. F. Prendegast (O), Eighteenth and Race streets. H. P. Schneider (C), Yord road and Erie avenue. Cost, \$1,000. Rectory, Oak Lane, Pa.

S. Rhoades (O), Germantown. W. J. Gruhler (C), 219 High street. Cost, \$700. Dwelling, Germantown.

J. P. Holt (O), Main and Harvey streets. Cost, \$1,800. Office, Main and Harvey streets.

A. M. Mohjarlian (O), 126 South Sixtieth street. Cost, \$1,000. Dwelling and store, 638 South Sixtieth street.

A. Zoffin (O), 3212 West Dauphin street.

Frank & Kaiser (C), 1522 South Sixth street. Cost, \$2,900. Dwelling, 3212 West Dauphin street.

C. W. Biddle (O), 517 Commerce street. J. G. Brown (C), Witherspoon Building. Cost, \$1,800. Store, 517 Commerce street.

C. B. Porter Co. (O), 128 North Second street. Stewart Bros. (C), 2528 North Orkney street. Cost, \$8,000. Manufacturing, 128 North Second street.

F. W. Woolworth & Co. (O), 1020 Market street. Cost, \$800. Store, 1020 Market street. C. W. Wilson (C), 1020 Market street.

R. Isaac (O), Lorraine Hotel. B. Bornstein (C), 412 South Fifth street. Cost, \$9,000. Garage, 822 North Broad street.

T. A. Harris Co. (O), 147 West Thompson street. Rush J. Whiteside & Sons (C), 2115 Wallace street. Cost, \$1,000. Manufacturing, Hancock and Thompson streets.

S. L. Wright (O), Germantown. F. W. Allison & Co. (C), 1710 Rittenhouse street. Cost, \$1,800. Dwelling, Germantown.

Cutter Electric Co. (O), Nineteenth and Hamilton streets. J. N. Hill Co. (C), Heed Building. Cost, \$700. Manufacturing Building, Nineteenth and Hamilton streets.

G. Weinert (O), 451 Poplar street. H. Koch (C), 408 Fairmount avenue. Cost, \$1,500. Dwelling, 915 North Fifth street.

George Weber (O), 3437 Germantown avenue. H. P. Schneider (C), York road and Erie avenue. Cost, \$1,200. Store and dwelling, 3445 Germantown avenue.

10. Hand Mixing.—The mixing shall be done on a water-tight platform and the materials shall be turned until they are homogeneous in appearance and color.

11. Consistency.—The materials shall be mixed so as to provide sufficient water to insure a proper bonding and a dense mortar free from voids.

12. Retempering. — Retempering mortar, i. e. remixing with water after it has partially set, shall not be allowed.

STRUCTURE.

13. Framing.—Studs spaced at 12 in. centers wherever possible shall be run from foundation to rafters without any intervening horizontal grain in the wood. These studs shall be tied together just below the floor joists by 6 in. boards which will be let into the studs on their inner side, so as to be flush and securely nailed to them. These boards will also act as stills for the floor joists, which in addition will be securely spiked to the side of the studs.

14. Bracing.—The frame of the building shall be so rigidly constructed and braced as to avoid cracking the stucco (a) at least one point between each two floors, brace between the studding with 2x3 in. bridging.

(b) Bracing may be omitted, as the sheathing boards act as bracing.

15. Sheathing.—(a) The lath is to be fastened direct to the studding and back-plastered and no sheathing boards are to be used.

(b) Sheathing boards shall be not less than 6 in. or more than 8 in. wide, dressed on one or both sides to a uniform thickness of $\frac{7}{8}$ in. They shall be laid diagonally across the wall studs and fastened with two nails at each stud.

16. Inside Waterproofing.—(a) The faces of the stud and for one inch back of the face on each side where the plaster may come in contact with them, shall be thoroughly waterproofed with tar or asphalt.

(b) Over the sheathing boards shall be laid in horizontal layers, beginning at the bottom, a substantial paper well impregnated and thoroughly waterproofed with tar or asphalt. The bottom strip shall lap over the base board at the bottom of the wall, and each strip shall lap the one below at least 2 in. The paper shall lap the flashings at all openings. When required, the lower horizontal edge of each strip shall be cemented with hot or liquid tar or asphalt compound, to the strip below and to the grounds of flashings at all openings. All tacking shall be within 2 in. of the top horizontal edge, where tacks will be covered by the lap of the strip above.

17. Furring.—When furring strips form an integral part of the metal lath to be used, then separate furring strips as described in this paragraph are to be omitted.

(a) Galvanized or painted $\frac{1}{4}$ in. crimped furring strips not lighter than 22 gauge or other shape giving equal results shall be fastened direct to the studding using $1\frac{1}{4}$ in. x 14 gauge staples, placed 12 in. apart.

(b) Fasten $\frac{1}{2}$ in. galvanized crimped fur-

STANDARD SPECIFICATIONS FOR EXTERIOR PLASTERING

As Formulated and Adopted by the Associated Metal Lath Manufacturers, with Particular Application to Stucco Work.

Paragraphs marked "a" apply only to back-plastered walls without sheathing.

Paragraphs marked "b" apply only to walls with sheathing.

All other paragraphs apply to both forms of construction.

MATERIALS:

1. Cement.—The cement shall meet the requirements of the Standard Specifications for Portland Cement of the American Society for Testing Materials adopted by the American Concrete Institute (Standard No. 1).

2. Fine Aggregate shall consist of sand, crushed stone, or gravel screenings, graded from fine to coarse, passing when dry a screen having $\frac{1}{8}$ in. diameter holes, shall be preferably of silicious materials, clean, coarse, free from loam, vegetable or other deleterious matter.

3. Lime.—The lime shall be thoroughly hydrated either by the manufacturer, or the contractor. If hydrated by the contractor, it shall be slaked in sufficient water to make a soft paste, and allowed to stand at least one week before being applied to the wall.

4. Hair or Fibre.—There shall be used only first quality long cow hair, free from foreign matter, or a long cocoanut fibre well combed out.

5. Coloring Matter.—Only mineral colors shall be used, but no coloring matter which

is affected by lime, Portland cement or the elements is permissible.

6. Water shall be clean, free from oil, acid, strong alkalies or vegetable matter.

7. Mixing.—The ingredients of the mortar shall be thoroughly mixed to a uniform color, sufficient water added to obtain the desired consistency, and the mixing shall continue until the cement and lime are uniformly distributed and the mass is uniform in color and homogeneous.

The hair or fibre shall be added during the process of wet mixing.

8. Measuring Proportions.—Methods of measurement of the proportions of the various ingredients, including the water, shall be used which will secure separate uniform measurements at all times. All proportions stated are by volume. A barrel of cement shall be assumed to contain 3.8 cu. ft. Lime when used shall be measured in the form of putty. Hydrated lime shall be made into putty before being measured. A cubic foot of lime putty contains .31 cu. ft. of hydrated lime weighing 45 lbs. and .69 cubic feet of water weighs 43 lbs.

9. Quantity.—There shall not be mixed at one time more mortar than will be used within one hour. Mortar which has begun to stiffen or take on its initial set shall not be used.

ring not lighter than 22 gauge or other shape giving equal results over the sheathing paper and directly along the line of the studs, using $1\frac{1}{4}$ in. x 14 gauge galvanized staples, placed 12 in. apart. The same depth of furring should be adhered to around curved surfaces and furring strips shall be placed not less than $1\frac{1}{2}$ in. or more than 4 in. on each side of and above and below all openings.

18. Preparation of Original Surface.—All roof gutters shall be fixed and down-spout hangers and all other fixed supports and fasteners shall be put up before the plastering is done, so there will be no break made in the plastering where they are permanently fixed.

Wall copings, balustrade rails, chimney caps, cornices, etc., shall be built of concrete, stone, tile or metal with ample overhang drip grooves or lip, and water-tight joints, to keep water from behind the plaster.

If wood sills are used, they should project well from the face of the plaster and have ample drip groove or lip.

Metal lath shall be stopped far enough above the level of the ground to be free from ground moisture.

Care should be taken to provide for placing all trim the proper distance from the studding or furring to show its right projection after the plaster is on.

19. Lath.—The lath shall be not thinner than 24 gauge metal weighing not less than $3\frac{1}{4}$ lbs. per square yard.

20. Application of Lath.—Place lath horizontally over the furring strips driving $1\frac{1}{4}$ in. x 14 gauge galvanized staples 8 in. apart over the furring strips into the studding. The sheets of lath shall be locked or lapped at least 1 in. and tied at joints between studs both vertically and horizontally with 18 gauge wire.

21. Corners.—There shall be 6 in. strips of metal lath bent around the corners and stapled over the lath, or the sheets of metal lath shall be folded around the corners a distance of at least 3 in. and stapled down, as applied. Galvanized corner bead may be applied over the lath.

22. Insulation.—(a) After the lath on the outside has been back-plastered, the air space may be divided by applying heavy building paper, quilting, felt or other suitable insulating material between the studs, fastening it to the studs by nailing wood strips over folded ends of the material. This insulation should be so fastened as to clear the bridging, leaving the preponderance of the air space next to the plaster. Care must be taken to keep the insulating material clear of the outside plaster and to make tight joints against the wood framing at the top and bottom of the spaces and against the bridging where the face intercepts.

(b) When quilting, felt, or other insulating material is to be used, it shall be applied to the sheathing boards under the inside waterproofing.

MORTAR COATS.

23. Plaster.—(a) The first coat shall contain not more than two and one-half ($2\frac{1}{2}$) parts of sand to one (1) part of Portland

cement by volume. If lime putty is added, it shall not be in excess of one-third (1-3) of the volume of cement. Hair or fibre may be added in sufficient quantity to bond the mortar.

(b) The first coat shall contain not more than two and one-half ($2\frac{1}{2}$) parts of sand to one (1) part of Portland cement by volume. If lime putty is added it shall not be in excess of one-third (1-3) of the volume of cement. No hair, fibre or similar material of any kind or in any quantity shall be added to the mortar.

For second coat, the proportion of sand to cement shall not be greater than $2\frac{1}{2}$ to 1 by volume, nor shall more than 1-3 part of lime putty be added.

For third coat, the proportion, of sand to cement shall not be less than 2 to 1 nor more than $2\frac{1}{2}$ to 1, by volume, nor shall more than 1-3 part of lime putty be added.

24. Waterproofing.—When a special waterproofing is to be added to mortar for stucco work, it shall be added in strict accordance with the specifications of the manufacturer. Lime should be omitted in the coat in which waterproofing may be used.

25. Application.—The plastering should be carried on continuously in one general direction, without allowing the plaster to dry at the edge. If it is impossible to work the full width of the wall at one time, the joint should be at some natural division of the surface, such as a window or door.

(a) The first coat shall be applied to the outside of the lath and pushed through sufficiently to give a good key. Over the face of the studs the plaster shall be forced well through the lath in order to fill entirely the space between the lath and the stud. The backing coat shall be applied to the back of the lath and shall be thoroughly troweled so that the lath shall be entirely covered. The final coat shall be applied to the face of the first coat.

(b) The first coat shall be applied to the lath and thoroughly pushed through against the inside waterproofing so as to completely imbed the metal of the lath on both sides. Special care shall be taken to fill all voids around furring strips and where lath laps.

26. Roughing.—Soon after applying and before the initial set has taken place, the surface of the coats which are to receive succeeding coats shall be roughened with a saw-toothed paddle or other suitable device.

27. Dampening.—Before applying mortar the surface of the preceding coat shall be thoroughly wetted to prevent absorption of water from the fresh mortar.

28. Thickness of Coat.—(a) The first coat shall be at least $\frac{3}{8}$ in. thick over the face of the lath and project through behind the lath about $\frac{3}{8}$ in. The backing coat shall increase the thickness behind the lath to not less than $\frac{5}{8}$ in. The final coat shall be not less than $\frac{3}{8}$ in. thick.

(b) The first coat shall have a minimum thickness over the lath at any point of not less than $\frac{1}{4}$ in. The intermediate coat shall have a thickness of not less than $\frac{1}{4}$ in. or

more than $\frac{3}{8}$ in. The final coat shall have a thickness of $\frac{1}{4}$ in. when placed over an intermediate coat, or of $\frac{3}{8}$ in. when placed directly on the scratch coat.

29. Drying Out.—The final coat shall not be permitted to dry out rapidly and adequate precaution shall be taken, either by sprinkling frequently after the mortar has set hard enough to permit it or by hanging wet burlap or other material over the surface.

30. Freezing.—Stucco should never be applied when the temperature is below freezing.

FINISH.

31. Smooth Troweled.—The finishing coat shall be troweled smooth with a metal trowel with as little rubbing as possible.

32. Stippled.—The finishing coat shall be troweled smooth with a metal trowel with as little rubbing as possible, and then shall be lightly patted with a brush of broom straw to give an even, stippled surface.

33. Sand Floated.—The finishing coat, after being brought to a smooth, even surface, shall be rubbed with a circular motion of a wood float with the addition of a little sand to slightly roughen the surface. This floating shall be done when the mortar has partially set.

34. Sand-Sprayed. — After the finishing coat has been brought to an even surface, it shall be sprayed by means of a wide, long fibre brush—a whisk-broom does very well—dipped into a creamy mixture of equal parts of cement and sand, mixed fresh every 30 minutes and kept well stirred in the bucket by means of the whisk-broom or a paddle. This coating shall be thrown forcibly against the surface to be finished. This treatment shall be applied while the finishing coat is still moist, and before it has attained its final set, i. e., within 3 to 5 hours. To obtain lighter shades add hydrated lime of 5 to 15 per cent. of the volume of the cement.

35. Splatter Dash or Rough Cast.—After the finishing coat has been brought to a smooth, even surface and before attaining final set, it shall be uniformly coated with a mixture of one part cement and two parts of sand thrown forcibly against it to produce a rough surface of uniform texture when viewed from a distance of 20 feet. Special care shall be taken to prevent the rapid drying out of this finish.

36. Pebble Dash.—After the finishing coat has been brought to a smooth, even surface, and before attaining the initial set, clean round pebbles or other material as selected, not smaller than $\frac{1}{4}$ in. or larger than $\frac{3}{4}$ in., previously wetted, shall be thrown forcibly against the mortar so as to embed themselves in the fresh mortar. They shall be distributed uniformly over the surface of the final coat and may be pushed back into the mortar with a clean wood trowel; but no rubbing of the surface shall be done after the pebbles are embedded.

37. Exposed Aggregates.—The finishing coat shall be composed of an approved, selected coarse sand, marble dust, granite dust or other special material, in the proportion

given for finishing given for finishing coats and within 24 hours after being applied and troweled to an even surface, shall be scrubbed with a stiff brush and water. In case the cement is too hard a solution of one part hydrochloric acid in four parts of water by volume can be used in place of water. After the aggregate particles have been uniformly exposed by scrubbing, care shall be taken to remove all traces of the acid by spraying with a hose.

38. Mortar Colors.—When it is required that any of the above finishes shall be made with colored mortar, not more than 6 per cent. of the weight of Portland cement shall be added to the mortar in the form of finely ground coloring matter.

A pre-determined weight of color shall be added dry to each batch of dry fine aggregate before the cement is added. The color and fine aggregate shall be mixed together and then the cement and lime mixed in. The whole shall then be thoroughly mixed dry by shoveling from one pile to another through a $\frac{1}{4}$ in. mesh screen until the entire batch is of uniform color. Water shall then be added to bring the mortar to a proper plastering consistency.

MACHINE STUCCO.

39. Stucco may be applied by a machine provided the results obtained are equal to those produced by hand work.

OVERCOATING.

40. During recent years there has come into vogue a method of remodeling old frame houses. This "overcoating," as it is called, is used extensively in all sections of the country, and the following practice is recommended.

Preparation of Original Surface.—Every house has its own defects and characteristics

and each must be treated according to its physical condition.

A tight roof is essential.

Where furring is used so deep that the space back of the lath is not entirely filled with plaster, some provision must be made for extending the old window and door frames to correspond with the increased thickness of the wall. In some cases the plaster is brought over the old frames in such a manner that a recessed window or door opening is made. In case the furring strips are fastened to the studding, it is not necessary to provide for extending the window and door frames, as the new stucco finish will have the same relations as the old weather-boarding.

If the weather-boarding is in poor condition it should be removed and furring strips and metal lath applied over the sheathing, to which waterproof paper has previously been fastened. It may be advisable also to tear off the sheathing, in which case the furring strips can be fastened direct to the studding after bracing between the studs and then finish as type "A" above.

Another method is to apply water-proof paper over the weatherboards and staple furring strips over the paper; then apply metal lath over the flooring.

In preparation for any of these methods the house should be gone over carefully to determine if the framework is well enough preserved to justify the improvement.

The doors should be looked after, the studding inspected, partitions and outside walls lined up and brought into plumb.

41. Furring.—Fasten galvanized $\frac{1}{2}$ in. crimped furring or other shape giving equal results, vertically over the original surface, whichever of the above may be adopted.

42. Lathing and Plastering.—Follow the above specifications for stucco.

bring you any money. Either you do not read those papers or else you are mistaken. If you read any trade papers regularly, I don't care what it is or whether it is directly applicable to your individual business, it will bring you money, business, success—far more than ten dollars' worth.

A trade paper is not like medicine. The man who reasons that if a dose of medicine is good a whole bottle full will be better is going to poison himself. The man who reasons that if one trade paper is good more will be better is going to put rubber into his heels, enthusiasm into his brain and gimp into his backbone.

The trade paper, the technical publication applied to your business, will put life into it in spite of you unless you throw it in the waste basket without reading it.

And if you don't want to see your business take a jump, don't let any of the people employed around your place get at the trade papers. The employee who gets the habit of reading such literature is sure to want to start something. Keep the papers of that sort away from the boys, or in a short time you will find they are learning the business faster than you are.

The advertisements alone in one good trade paper are worth a good deal more than ten dollars a year if you study them. The trade press of the country has developed tremendously in class and in independence in the last few years. There are no better informed men connected with your business than those whose opinions and experience and advice you find in the trade papers connected with it. There are no better manufacturers or producers of your kind of merchandise than those whose advertising you find in the journals of the business.

The man who wants to know what to do to get more trade, what to do to increase his income, where and what and when to buy for use or for sale in his business, must have the trade papers, or else he will find it utterly impossible to keep up with his competitors.

If your competition is getting the better of you, if your business is falling back actually or comparatively, make up your mind that competition is making use of the trade journals. Even if you are not spending ten dollars a year for trade literature and using it, the other fellow is, and he will get your business.

If you spend ten dollars this year for trade papers to read—not to fill waste baskets with—and at the end of the year claim you have been unable to get any dividends on the investment, I want to have a talk with you. I have seen many men try the trade journal method of finding out, and I never knew one to fall down. If you can read any trade paper honestly for a year and not make it worth ten dollars to you there must be a kink in your intellect somewhere.

If you won't spend ten dollars, spend five, but when you make that cut in your appropriation remember you can't get ten dollars' worth of good by spending only five dollars.—Frank Farrington in "The National Builder."

YOUR BEST INVESTMENT

There isn't anything about making money that gives us a grouch. Fond as we may be of baseball, pool or auction pinochle, we like making money better.

They say it takes money to make money, and it's true. If we don't have any money we have to borrow it. Getting into business without capital is like getting into society without clothes. It can't be done.

Have you ten dollars in the bank or in the cash register?

If you haven't, go out and borrow it, because I have something I want you to use that ten for. No, don't send it to me. I've got ten of my own.

You can invest ten dollars right now where it will bring you ten tens, a hundred tens, perhaps more before the year is over.

How many trade papers are you taking? Are you taking ten dollars' worth a year? Are you paying ten dollars a year in subscriptions to trade journals and business magazines? If you are that's all I have to say to you, because you have made your investment and you will get the returns—unless you don't read those publications.

But if you are spending any less than ten dollars a year for trade and business literature you are saving money at a great expense. Every business man needs half a dozen trade publications or more. He needs the ideas they contain. His own ideas run out. He puts a mistaken value on his own ability if he doesn't take pains to find out what other people know.

Every dollar invested in trade journals that you will read is a dollar invested where it will bring you bigger returns than a hundred invested in goods.

Wouldn't you willingly give ten dollars for an idea that would enable you to increase your income, the receipts of your business or your salary a net hundred dollars? Well, if you knew where you could spend ten to that effect, wild horses couldn't hold you back from making the expenditure.

If you have not been spending ten dollars a year for business literature it is for the reason that you do not believe it will pay you as I say it will.

Perhaps you argue that you do take a number of trade papers and that they don't

Bell Phone, Spruce 6612

Keystone Phone, Race 2799

The Philadelphia Real Estate Record and BUILDER'S GUIDE

PUBLISHED WEEKLY

OFFICES, PERRY BUILDING (Suite 824-825)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

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Irving Dillon.....Editor

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(Organized 1857)

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Editorial Comment

"Life," that prince of humorous weeklies, has its usual allotment of fun out of the matter of the McKay bequest to Harvard and the Massachusetts Institute.

"A great saving of money and administrative labor," says "Life," "has been accomplished by the arrangement between Harvard College and the Massachusetts Institute of Technology, which provides that a large part of the funds of the large McKay bequest to Harvard for technological instruction shall support the instruction now given at the Institute of Technology instead of duplicating it. It was a difficult matter to arrange, having due regard for the intentions of the testator, and the obligations of each institution to itself. The first attempt broke down because it planned for a degree of merger that clashed with the sentiment of the Tech. graduates. As now accomplished, and apparently lawful and satisfactory, it seems an admirable and most exemplary and intelligent piece of work.

The lion with the lamb lies there
And neither one inside;
The Harvards skip a lot of care,
The Techs conserve their pride.

Instead of spending heaps of dough
Each other's weal to check,
The Techs at Tech to Harvard go,
The Harvards tech at Tech."

* * *

The ancient tradition that a trade magazine can have no advertising value unless its circulation is national in scope was a stubborn one to explode, but like many another hoary tradition has had to give way before advancing common sense. Just why a trade magazine with special appeal within a certain limited stretch of territory should not pull better in its own particular zone than an outside publication hitting only the high places we have never been able to figure out with any degree of satisfaction. National circulation is undoubtedly a most desirable commodity to buy when its ramifications are sufficiently far-reaching to cover thoroughly or even comprehensively the territory at which it is aimed. It is wise to consider to what extent national circulation may be counted on to cover populous centers like, say, New York, Chicago, Philadelphia, Boston and other cities of more than rural size and importance.

No false modesty stands in the way of our asserting boldly and without fear of contradiction that the national magazine does not exist which covers Philadelphia, Eastern Pennsylvania, Southern New Jersey and Delaware with a respectable fraction of the thoroughness with which this territory is covered by "The Guide."

To cite a parallel instance, we know of no

magazine in the United States, national in its character, which could hope to equal the "New York Real Estate Record and Guide" in New York City, Greater New York and New York State. How any level-headed sales manager or advertising man can figure a way to cover Greater New York and ignore the publication in question, or to cover Philadelphia, Eastern Pennsylvania, Southern New Jersey and Delaware and omit the Philadelphia "Builders' Guide" from his list, we must admit is leagues beyond our powers of comprehension. One of the standard so-called magazines of "national circulation" in the building field claims a total circulation of 4,100 copies. Let us go into a little analysis of these figures for the purpose of determining just how efficient is this much-sought fetic of "national circulation."

As the magazine in question is on sale on the news-stands, we have no means of arriving at just what percentage of the copies thus displayed are returned as unsold. Neither have we any means of estimating what additional percentage of the copies printed are sent out to exchanges or mailed gratuitously to persons out of touch with or only remotely interested in the building field.

Let us waive these considerations and accepting the claim of 4,100 copies at its face value, try to figure what high test efficiency may be attributed to a "national circulation" so circumscribed. According to the official census of 1910 there are 224 cities in the United States with a population of 25,000 or over. Splitting the claimed circulation of 4,100 copies evenly between 224 cities, we find that something like 14 copies of the magazine may be expected to find its way to each of these 224 cities. Fourteen copies in the case of a city with a population of 25,000 wouldn't be called covering the field like a porous plaster, would it?

But tarry a moment! Try to figure if you can, Mr. Sales Manager, the pulling capacity of these 14 copies in a city of 50,000, or of 100,000, or of 250,000, or in a city like Philadelphia, with a population close to the two-million mark! But—you here interject,—what you are after is not the entire population of a city, but the comparatively small percentage of that population interested in building. Your aim is to reach the architects, the builders, the carpenters, contractors and sub-contractors who can use your goods and may reasonably be expected, therefore, to take an interest in your proposition. Philadelphia has not architects alone. She has builders, carpenters, tile men, decorators, plasterers, bricklayers, stone masons, roofers, heating concerns, plumbers, electrical contractors, brick men, building supplies firms, floor finishers, sheet metal workers, gas and electrical fixture people, hardware concerns, and a host of subordinate firms with a direct, every-day, inquiring interest in building and

propositions related thereto. How far will your 14 copies go with this army?

One other point. The magazine we have taken as a text for this little sermon on trade advertising is one of those picture magazines crammed chock full every issue with pictures of architecturally pretty buildings. Do you happen to know what occurs to this variety of magazine, Mr. Sales Manager, in the office of the average busy architect? No? Well, ask the next architect you meet, and find out at first hand. In the meantime, let us tell you just what happens to it. The most desirable of the pictures are promptly cut out and filed. The balance of the magazine,—and there's mighty little left of some of them when the pictures are out!—goes into the waste basket,—“ads” and all.

That sales managers are gradually waking up to the fallaciousness of this much-touted fetich of “national circulation” is shown by certain remarks made by one of the biggest men in the trade here the other day.

“I used to be a stanch believer,” said this sales manager, “in the magazine of national circulation, and am yet, for that matter, to a certain extent. A little private investigation made on my own initiative has, however, convinced me that national circulation like everything else has its limitations. I've been forced to the conclusion that when it comes to covering big centers like New York, Chicago and Philadelphia, the magazine of national circulation doesn't fill the bill. These centers are too big, too individual, too highly localized to take with any considerable degree of spontaneity to the outside magazine of general appeal. In these centers I have for years made it a point to use the local trade magazine, and my experience proves that my theories are correct. The local trade magazines have paid, and paid big.”

Plain common sense—that's all. And yet it seems a pity. Take this “national circulation” bugaboo and the pretty half-tones away from some of the so-called “standard” trade magazines, and there won't be enough left to fill the hole in a boarding house cruller. They've been fattening on a fetich so many years they've forgotten that such a word as efficiency has a place in the lexicon.

THE GRADUATE COLLEGE GROUP OF PRINCETON UNIVERSITY.

(From the “Builder,” London, England.)

One of the weak points of the American architect was considered to be their inability to understand and carry out Gothic—a failing readily understood when it is remembered that the architectural record of the United States covers little more than two centuries, and that, apart from the indigenous remains of Mexico, Peru and Yucatan, nothing remains in the two Americas of an earlier date than the Spanish Renaissance buildings of Mexico and Southern America.

In these circumstances design of a Classic or Renaissance character is more natural to the American than the European, and this is

also emphasized because of the climatic conditions of the United States, as over the greater part of its territory the summers possess a heat and intensity which we only find in Southern Europe.

Excepting for the round-arched Romanesque type of architecture, which we may almost say was “invented” by Richardson, and which, after a series of years, was swept away by the general endeavor to follow classical lines, the buildings of every other type have been few and far between. We see in New York and many of the older towns deliberate attempts to copy certain periods, usually with a greater and more painstaking attempt at accuracy than we find here. But the so-called Gothic of the United States is usually a hard and lifeless imitation of corresponding work carried out here. We have now in England a number of designers who can carry out churches and other buildings which combine considerable freedom of design with much of the spirit which has rendered mediaeval work so interesting.

The building which we illustrate here, the Graduate College of Princeton University, shows that one firm of architects in America understand the spirit and nature of Gothic design, and we think the accompanying illustrations will be of general interest to our readers. We do not remember a finer instance of modern Gothic design in this country, and it is doubly interesting as showing what can be accomplished by education, knowledge, and skill in a land without mediaeval traditions.

Mr. Cram believes that the exponents of Classic traditions are working on wrong lines, and, though we are not with him on this point, we think the Princeton College shows the absolute mastery of the style which he believes in.

Messrs. Cram, Goodhue & Ferguson are also the architects of the Military College at West Point—a fine example of semi-military design.

MORE OR LESS PERSONAL.

**P. E. Paist, formerly of the firm of Hewitt, Granger and Paist, architects, Bullitt Building, Philadelphia, Pa., has opened offices for the practice of his profession at 1613 Chestnut street, Philadelphia.

**Price & McLanahan, architects, have moved their offices from the northeast corner of Sixteenth and Walnut streets to new quarters in the Bellevue Court Building, Walnut street, Philadelphia.

Trying to run a business without advertising is like trying to run an automobile without gasoline. You may make it go, but it's tall pushing for a snail's progress.

Play-it-on-a-hunch advertising is not the kind that wins out. The steady, persistently repeated note of appeal is what tells.—Cement World.

HIGHEST CONCRETE BRIDGE.

The highest concrete bridge of which there is record in the annals of engineering and the largest of its kind in point of volume of masonry—the great Tunkhannock double-track viaduct for the Delaware, Lackawanna and Western Railroad—is beginning to take shape across the valley of Tunkhannock creek, near Nicholson, Pa.

The structure, a link in the 43-mile relocation between Scranton, Pa., and Elmira, N. Y., is 300 feet high from parapet to foundation (24 feet above the surface of the creek) and has a length of 2,230 feet. It will consist of 12 arches—ten of 180-foot span and two of 100-foot span—and will contain about 169,000 cubic yards of concrete masonry. Construction of the main piers has been progressing rapidly, and the work of placing concrete for the arch spans is under way. The excavations have been carried in open cofferdams through sand, gravel and boulders to a depth of sixty feet below ground-water level.

VALUE OF ADVERTISING.

When a customer enters a store and demands an advertised article and will take no substitute, he is unconsciously demonstrating the practical value of an advertising campaign. A child once entered a drug store and asked for a box of talcum powder. The druggist offered him a fancy box of his own, thinking the substitution would be easy. To his surprise, the little fellow said: “Not that one. I want the one with the baby on the box.” It is said that “the baby on the box” is worth two million dollars to the manufacturers of that particular brand of talcum powder, all through the power of cumulative advertising. The public demands that brand because it has been taught to associate that picture with the best in that line. It may not be the best; but the advertising says it is, and the public believes it, and, even if the quality were lowered, the public would keep right on buying that particular brand, on faith.

This is only one of the many instances of the wonderful power of persistent advertising, backed up by good goods. The principle applies wherever advertising is done, whether by manufacturer or retailer, to the trade or to the general public.

HIS BOSS IN A HURRY.

A negro was driving a brick wagon, and in going through a street ran against a funeral. With the superstition of his race he thought it would be bad luck to cross behind a funeral, so he tried to cross ahead of it, but the driver of the hearse whipped up his horse, and the two went neck and neck for a time until the darkey sang out:

“Say, dah, pull up youah boss! Mah boss is in a hurry an' youah's isn't.”

A large number of people have taken advantage of our offer to finance the electric wiring of their homes on the installment plan. Many hundreds more would do it if they fully realized the fact that wiring a house is accomplished with so little noise, dirt and inconvenience, that you are not deprived of the use of any of your apartments for even a single day.

Don't buy or rent a house unless it is wired and equipped for Electric Light!



A PATRIOTIC CREED.

In the lives of nations, as well as those of men, questions of grave importance occasionally arise concerning which there may be an honest difference of opinion. At such times it is well to have constantly in mind our confidence and faith in our country. With this thought in mind, the Chase National Bank of New York has adopted a "Patriotic Creed," which embodies the spirit of real American optimism and which is worthy of the adoption of every American business man.

In addition to being termed a patriotic creed, it might well be called a practical business creed, for if every business man adhered closely to the beliefs set forth in this creed there would be no panicky periods in the business world. The creed follows:

"We believe in our country—The United States of America. We believe in her constitution, her laws, her institutions, and the principles for which she stands. We believe in her future—the past is secure. We believe in her vast resources, her great possibilities—yes, more, her wonderful certainties.

"We believe in the American people, their genius, their brain, and their brawn. We believe in their honesty, their integrity and dependability. We believe that nothing can stand in the way of their commercial advancement and prosperity.

"We believe that what are termed 'times of business depression' are but periods of preparation for greater and more pronounced commercial success.

"And we believe that in our country are being worked out great problems, the solution of which will be for the benefit of all mankind."

RESTRICTED DISTRICTS IN GERMAN CITIES

Observations of an American Traveler—Effect of Districting on Land Values an Open Question—But Districting Does Protect Good Neighborhoods.

By Frank Backus Williams.

(From a paper delivered before the National Housing Congress, evening of December 4, 1913, at Cincinnati, Ohio.)

To the thoughtful person there is a satisfaction absolutely unique in the method and order of a formal garden from a perspective which shows its design as a whole, revealing its unity and determining purpose.

The same pervasive satisfaction comes to us at the sight of many a German city. From the vantage of a good viewpoint we see below us a nucleus of structures of all sorts built uniformly high and close, surrounded by belts or zones of buildings progressively decreasing in height and extent as compared with the lots they stand on, with a resulting progressive increase of green grass and trees to the city's very outskirts, almost rural in character.

Frankfort.

In the German city of to-day, as a result of the application of the principle of progressive gradation, the industrial district exists in many degrees of intensity. Frankfort, for instance, has its industrial districts, its mixed districts and its chief traffic streets, which are really a district by themselves; as well as its residential districts and the original or inner city where are still found the old undifferentiated conditions. In the industrial districts all industries are not only allowed, but favored in so many ways that by far the most of them are located there; and residences, with rare exceptions, such as rooms for caretakers and watchmen, are forbidden. In the mixed districts both manufactures of all sorts and residences are permitted. On the chief traffic streets business and the minor industries, as well as residences, are allowed.

This differentiation between industrial and residential districts in Frankfort, although far advanced, is not complete. The mixed district, for instance, contains both residences and manufactures. The purpose of this, both in Frankfort and elsewhere, is to house the workman near his work. Desirable as this is, the results of the mixed district in other ways, both for housing and for manufacturing, have been bad; for living conditions are injured by the industries, and the factories are crowded and hampered. A better solution would seem to be to create separate residential and industrial streets, making the street the unit of the district. In this way both residences and industries are segregated, and yet form part of the same neighborhood.

No Separate Business District.

The phenomenon of residences in the upper stories of buildings occupied on their lower floors by shops and offices occurs not only on

chief traffic streets, but everywhere, in cities, where shops and offices are to be found. This is true not only throughout Germany, but everywhere in Europe, except on the continent to find the most expensive and fashionable of apartments over stores. There are in the large cities buildings occupied solely for business purposes; but they are rare. In none of the continental cities is there an actual business district. Even on the principal business streets of cities like Berlin—the Leipsiger or Friedrichstrasse, for instance—there is only here and there an isolated building in which there are no residences.

This lack of that most useful differentiation, the business district, is a great disadvantage. Unlike residences, business districts as far as conditions allow, should be centralized and concentrated, to the advantage of both business and housing. It is difficult to keep from feeling an un-Christian joy that Germany, which is ahead of us in so many phases of city construction, is at least behind us in this one.

Next, the application of the principle of progressive gradation, which is the principle introduced by the zoning system, was reapplied to the differentiation of the residential district and produced further developments in it. This was brought about in some cities by making the districts, elsewhere called zones, smaller, and, while still regulating them progressively, doing so without any constant or precise relation to any one center.

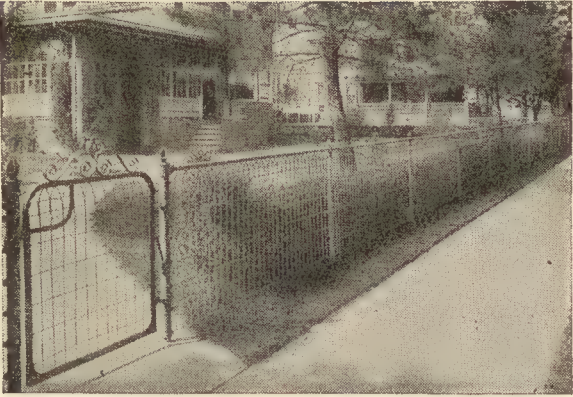
Dresden.

Dresden is an example of such regulation. Its district map is kaleidoscopic; and often the same districting appears in ten or twelve parts of the city. In this way, it is thought, regulation may more closely conform to, and more advantageously guide, development.

In other cities this same tendency toward smaller districts, has produced results of a slightly different form. The rules for chief traffic streets within zones or districts have already been mentioned. The same development has occurred rather generally in all German centers. This is really only another method of splitting up the more primitive zones or larger district into smaller ones.

Dusseldorf.

Classification along this line has in Dusseldorf taken an essentially similar direction, although again slightly different in form. There, in addition to five zones covering the whole city, and rules for special streets, in many cases running through several zones,

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there are eleven classes of streets, also within the zones. These classes are in most cases created for various types of housing. The distinctions are often very minute.

There are, for instance, two classes of rules for one and two-family houses in blocks, the one with, and the other without, rear buildings; two classes similar in all respects to these, except that three-family houses are also allowed; two classes, alike in all respects to those first mentioned, except that in each case the houses must be detached, the required open spaces between the houses and the side lines of the house varying, however, in breadth; a class for the better sort of tenement houses, in blocks, with not more than two families in each story; a class for tenement houses similar in all respects to the class last mentioned, except that they are to be of cheaper and simpler construction and suitable for not more than three families on any one floor, etc.

When we remember that the lots on which these class restrictions are imposed are widely scattered throughout the zones and subject not only to class but to the various zone restrictions as well, we may come to the conclusion that in Dusseldorf differentiation has reached its uttermost limit.

Districting by Streets.

The system of regulation by streets is applicable universally. Broader districts are, it is true, at times necessary. Certainly the offensive industries should have a considerable tract quite to themselves. But even in this case the district will consist of a certain number of streets with the lots on them; and streets may, therefore, be used as convenient units for the district.

Munich was the pioneer in this system of districting by streets, adopting it in 1904. In 1912 Karlsruhe followed. Instead of any of the older forms or districts she now has sixteen classes of streets. According to present limitations it would seem that this system is destined to become the prevailing one in Germany.

Apparently the German himself is, on the whole, satisfied with districting as a system. A large and increasing majority of German cities have adopted it, and none of them has made any attempt to abolish it later, though in some cases an effort has been made to do away with a particular district or change its position altogether. In Frankfurt the location of one of the old manufacturing districts is felt to be a disadvantage to the city as a whole; and, partly for this reason, a new one was created. The old district has not been abolished; but the natural extension of it is not allowed, and the new district is made as advantageous as possible, in the hope of attracting the industries located in the old.

The boundaries of districts, too, are often changed. Usually it is the business district which encroaches upon a residence district. This means a disturbance of living conditions; but as there are invariably more concentration and higher land values in the business than in the residence district the change produces higher prices for land, and there is little or no complaint.

Conclusion.

As a rule, districting does preserve the character of neighborhoods. This is an advantage in every way. It saves the waste of destruction, reconstruction and readjustment, inevitably attendant upon a change of character; and by making such a change impossible it steadies values. It prevents the conflict of alien activities to their mutual disadvantage. It raises land value in the only way possible without injury to anyone; for it increases the usefulness of the land at least as much as it does its price.

The effect of districting upon the general level of land values is an open one in Germany; the controversy on the subject heated and bitter; and the mass of literature with regard to it, already in existence, more than any one person can even read. Its effect on housing and on the health and vigor of the German people is quite another question.

TRADE NEWS AND GOSSIP.

**The Lehigh Portland Cement Co. has opened a southern sales office in the Savannah Bank & Trust Building, Savannah, Ga., with Mr. L. Alden Smith, district sales manager, in charge. The territory assigned this office includes the states of North and South Carolina, Georgia and Florida. Previous to the opening of this office, Lehigh cement was distributed in the southern territory by the Southeastern Lime & Cement Co. According to Bert L. Swett, eastern sales manager, stock will be maintained at all times at the southern ports, thus affording the southern dealers the prompt service for which Lehigh is noted.

**Brick makers, who are members of the National Brick Manufacturers' Association, will convene at New Orleans March 2nd for the twenty-eighth annual meeting of that Association. The sessions of this meeting will be held from March 2nd to March 7th. In addition to the convention of the National Brick Manufacturers' Association meetings will be held by the following organizations: American Face Brick Association, Building Brick Association of America, National Clay Machinery Manufacturers' Association, Eastern Paving Brick Manufacturers' Association, Arkansas and Northern Louisiana Brick Manufacturers' Association, Canadian Clay Manufacturers' Association, International Clay Products Bureau, Iowa City Manufacturers' Association, Illinois Clay Manufacturers' Association, the Northwestern Clay Association, and National Paving Brick Manufacturers' Association board of directors.

**W. A. Case & Sons Manufacturing Co., Buffalo, N. Y., announces the consolidation of the following concerns under the name of the W. A. Case & Sons Manufacturing Co.: Plumbers and Steamfitters Supply Co., Buffalo, N. Y.; Buffalo Radiator Co., Buffalo, N. Y.; Nashville Plumbers & Mill Supply Co., Nashville, Tenn.; Eastern Range Boiler & Welding Co., Conshohocken, Pa., and the W. A. Case & Sons Mfg. Co., Buffalo, N. Y.

The new concern is capitalized at \$2,500,000, of which \$1,750,000 is common and \$750,000 is preferred stock. The directors are Whitney G. Case, Joseph P. Fells, Edward W. Case, Chester W. Fells, Fred A. Mason and Harry Montgomery, all of Buffalo, and Herbert B. Hallett, of Norristown, Pr. Mr. Hallett will be in charge of sales of the company's line of house-heating boilers and radiation and range boilers. W. N. Billings will be in charge of the company's Nashville branch.

**The Ninth Exhibition of the Brooklyn Chapter of the American Institute of Architects will be held at 131 Remsen street, Brooklyn, from Sunday, March 15th, to Saturday, March 28th, inclusive, without charge to the public. The public exhibition will be preceded by the private view, reception and annual dinner of the society, Saturday, March 14th. The exhibition committee, John B. Slee, chairman, H. Lincoln Rogers, Carroll H. Pratt, William P. Bannister and John P. L. Voelker, have spared no effort to make this year's exhibition the best in the history of the society.

**Hudson Boiler Manufacturing Co., New York, elected the following officers and directors at its annual meeting, January 5: President and Treasurer, Howard T. Gates; Secretary, Benjamin F. Lane; Assistant Treasurer, Israel Jacobs. Directors: Howard, T. Gates, Edward E. Fox, Benjamin F. Lane, F. A. Leland and J. J. Bennett.

**The Ceresit Water-Proofing Co., 1133 Broadway and 110 South Dearborn street, Chicago, was awarded signal honors at the Ghent-Leipzig Exposition on the merits of their water-proofing products. This company has perfected a water-proofing system after many years of experiment and research, and the recognition given to it by the directors of this exposition is a matter of great pride on the part of the company.

...**Bishop-Babcock Co., Cleveland, O., has appointed Lloyd W. Young as the company's advertising manager, succeeding Richard C. Crisp. Mr. Young was previously advertising manager for the Billings-Chapin Co.

**H. Mueller Manufacturing Co., Decatur, Ill., has appointed Harry Eggleston, formerly with the United States Radiator Corporation, as its representative in Nebraska. Other changes are the appointment of L. M. Ross, who will cover Iowa, and E. F. Kennedy, who will take care of the company's interests in Minnesota. C. H. Dubois has been transferred from Illinois to Texas, and R. L. Moore will be the Illinois representative.

**Perfect Safety Scaffolding Co., 620 West Twenty-fifth street, New York City, has opened offices in the Empire Life Building, Atlanta, Ga., and also a warehouse in Atlanta, in order to meet the increasing demand for their equipment in the Southern Atlantic States.

**Arthur Lee Cook, a dealer in Oriental and made-to-order rugs, who for some time past has been associated with the Tiffany Studios, has opened an office and showroom at 665 Fifth avenue.

Reference Directory for Architects, Builders and Owners

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Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

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Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

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Builders' Steel Products Co.,
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1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.

Fireproofing Materials.

Builders' Steel Products Co.,
Lafayette Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Graphite Paint.

Jos. Dixon Crucible Co., 1020 Arch st.

Hardware and Tools.

Sees & Faber Co., 2008 N. Front st., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Hose and Fire Extinguishers.

Chas. Bond Co., 520 Arch st., Phila.

Insurance.

A. E. Hutson, 134 S. 4th st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.

Landscape Work.

T. E. Steele, Palmyra, N. J.

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141 W. 19th st., New York City

Lighting Fixtures.

Staman & Dickey Co., 30 S. 16th st., Phila.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Tile.

American Perfectile Co., 1526 Sansom st.

Metal Lath.

Builders' Steel Products Co.,
Lafayette Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

Chas. Bond Co., 520 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Pyramid Paint Co., 131 N. 22nd st., Phila.

Jos. Dixon Crucible Co., 1020 Arch st., Phila.

Rinald Bros., 1142 N. Hancock st., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

J. C. Moore Co., 35 S. 17th st., Phila.

Perfectile.

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1526 Sansom st., Phila.

Pipe Fittings and Valves.

Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts.

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Plaster Board.

J. B. King Co., Builders' Exchange, Phila.

Radiators.

H. B. Smith Co., 1225 Arch st., Phila.

Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.

Refrigerators.

Henry M. Miller, 40 N. 2nd st., Phila.

Roofing.

Benjamin Foster Co.,
22nd and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange.

Roofing Tile.

C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

The Fairbanks Co.,
7th and Arch sts.

Sanitary Flooring.

Embossed Wall Covering Co., 880 N. 48th st.
Woodoleum Flooring Co., Betz Building.

Sewer Pipe and Flue Linings.

C. F. Shellenberger, Builders' Exchange.

Sash Pulleys.

American Pulley Co.,
4200 Wissahickon ave., Phila.

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Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
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Terra Cotta (Architectural).

S. B. Dobbs, Bailey Bldg., Phila.
O. W. Ketcham, Builders' Exchange, Phila.

Test Borings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Tile (Artificial).

Embossed Wall Covering Co.,
880 N. 48th st., Phila.

Tile—Floor, Wall and Decorative.

The American Perfectile Co.,
1526 Sansom st., Phila.

Tile and Terrazza Work.

Belfi Bros. & Co., 20-22 S. 19th st., Phila.

Trees and Shrubs.

T. E. Steele, Palmyra, N. J.

Wall Board—Compo.

Howard Ketcham, 3rd & Girard ave., Phila.

Wall Plaster.

J. B. King & Co., Builders' Exchange, Phila.

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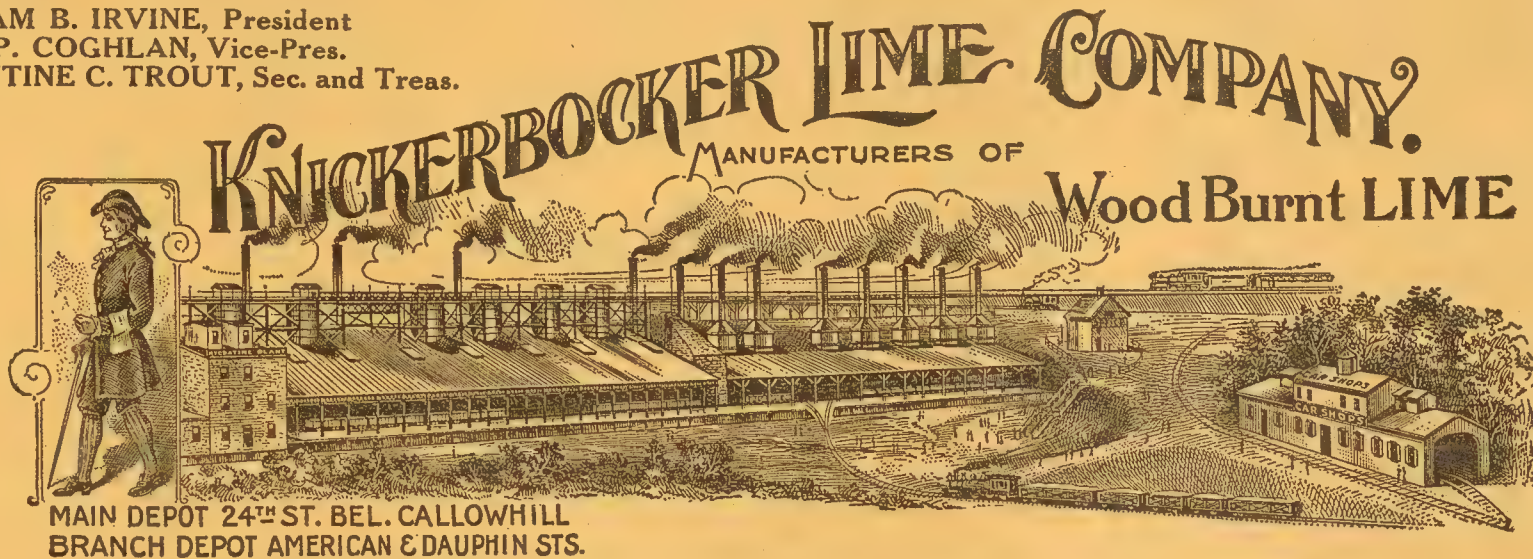
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Vol. XXIX., No. 9.

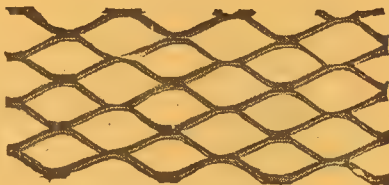
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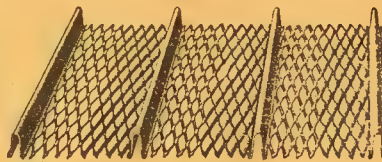


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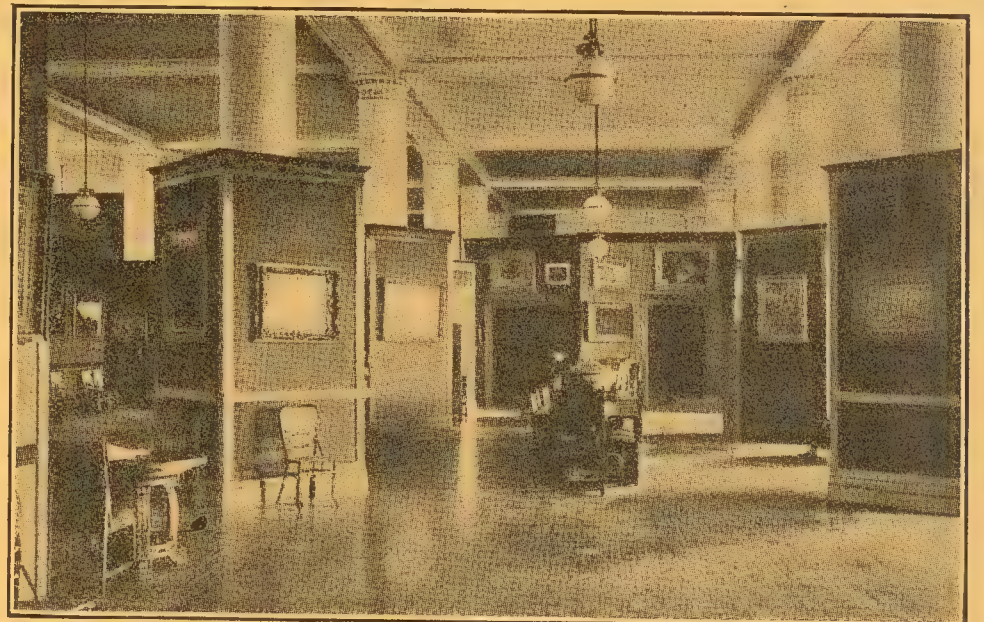
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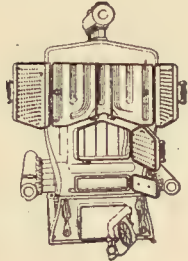
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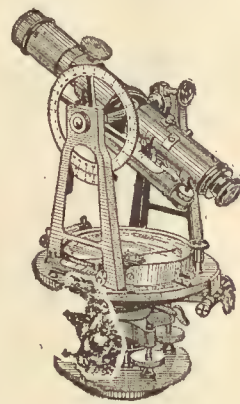
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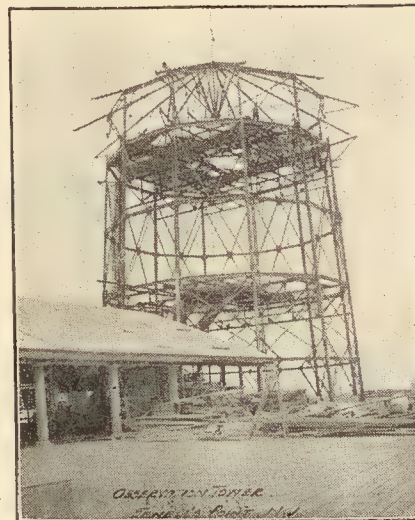
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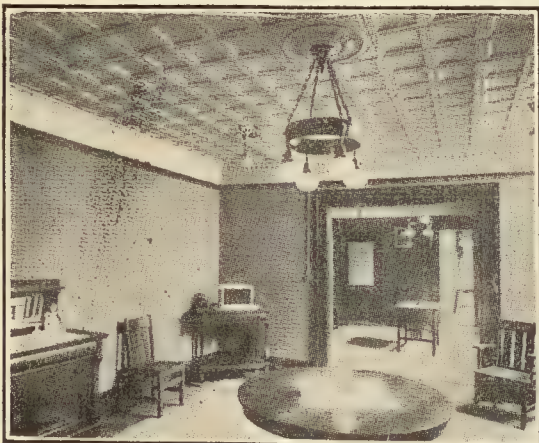


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PHILADELPHIA, WEDNESDAY, MARCH 4, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Loft Building, Thirteenth and Cherry streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Louis Biberman & Co., 240 Market street. Brick and terra cotta, fireproof, 8 stories, 66x121 feet, slag roof (heat and light, reserved). Architects taking revised bids due March 11th. The following are figuring: William R. Dougherty, 1610 Sansom street; Charles McCaul Co., Tenth and Sansom streets; Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street.

Stores and Apartments (2), Fifth street and Tabor road. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William C. Runge, 6354 Germantown avenue. Brick, 2 stories, 16x70 feet and 16x78 feet, slag roofs, steam heating, electric lighting. Plans in progress. Architect will take bids in one week.

Club House, Bermuda and Orthodox streets. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford, Pa. Owner, Polish-American Harmonic Club, on premises. Brick, 2 stories, 24x80 feet, slag roof, electric lighting (heating reserved). Owners taking bids due March 6th. George Kessler Construction Co., Drexel Building, is figuring.

Apartment Houses (4) and Flat Houses (10), Nineteenth street and Erie avenue. \$160,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Harold C. Irvin, 721 Walnut street. Brick and plaster, 3 stories, 41x92 feet, each, and 2 stories, 20x88 feet each, slag and green tile roofs, hot-water heating, electric lighting, hardwood floors. Architect and owner taking sub-bids.

Residences (62), Nineteenth and Erie avenue, \$100,00. Architect, E. Allen Wilson, 1200 Chestnut street. Owner, Harold C. Irvin, 721 Walnut street. Brick, 2 stories, 16x39 feet each, slag and tile roofs, hot water heating, electric lighting, hardwood floors. Architect and owner taking sub-bids.

Residence and Garage, St. Martins. Architect, Herbert C. Wise, 133 South Twelfth street. Owner, Theodore L. McDowell, care of architect. Brick and plaster 2½ stories (heat and light reserved). Architect taking revised sub-bids on all lines, due March 2nd.

Pier (add.), 10 and 11 South Wharves, Delaware River. Engineer, Department of Maintenance and Ways, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station. Steel and wood, 2 stories, 105x176 feet, slag roof, steam heating, electric lighting, composition floors. Owners taking bids, due March 5th. The following are figuring: Armstrong & Latta, Land Title Building; Brann & Stuart Company, Commercial Trust Building; A. L. Curhart, Hale Building; E. L. Seeds, 6314 Wissahickon avenue; J. N. Gill Company, Heed Building; W. W. Lindsay, Harrison Building; Roydhouse-Arey Company, Fidelity Building; L. H. Focht & Sons, Baer Building, Reading, Pa.

Parichial School, Holmesburg. Architect, H. A. Dagit, 411 Walnut street. Owners, St. Dominic's R. C. Church, care of Rev. L. J. Wall, Holmesburg, Pa. Stone, 2½ stories, 44x86 feet, slate roof, hot water heating, electric lighting. New plans in progress.

Residences (2), Eighteenth and Cayuga streets, \$10,000. Architect, private plans. Owner, Felix Cantona, 1908 Rowan street. Brick, 3 stories, 18x60 feet, slag roof, hot water heating, electric lighting. Revised plans in progress.

Ice Storage (add.), 1952 North Philips street. Architect, private plans. Owner, Mahlon A. Young, American and Berks streets. Brick, 2 stories, 14x47 feet, slag roof. Owner has received bids.

Store and Residence (alt. and add.), 2647 Kensington avenue. Owner, Mrs. Wentisch, on premises. Architect, private plans. Brick, 4 stories, slag roof, electric lighting. Owner has received bids.

Apartment House, East Walnut lane and Baynton street, Germantown. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, J. Edmund Enich, 1001 Chestnut street. Brick, 3 stories, 48x82 feet, slag roof, steam heating, electric lighting. Owner taking sub-bids on all lines.

Theatre, 2209-11-13 North Broad street. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, Elliott J. Goldman, 1117 South street. Brick, 1 story, 32x150 feet. Plans in progress.

Store and Manufacturing Building (alt. and add.), 223 North Thirteenth street. Architect, C. E. Oelschläger, Harrison Building. Owner, Benjamin Alexander, Hale Building. Brick, 5 stories, slag roof, consists of interior alteration and addition. Architect has received bids.

Residence (alt. and add.), 654 Rex avenue, Roxborough, Pa. Architect, Amos W. Barnes, 133 South Fifteenth street. Owner, Mrs. A. Staneruck, on premises. Brick and plaster, 2 stories, 17x28 feet, slag roof, steam heat, hardwood floors. Revised plans in progress.

Tower, Thirty-fifth and Gray's Ferry road. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Harrison Bros. & Co., on premises. Concrete and steel, metal window frames. Architects have received bids.

Picture Theatre, Fifty-second and Locust streets, Philadelphia, \$25,000. Architects, Stuckert & Sloan, Crozer Building. Owners, Felt Amusement Company, Fifty-second and Wyalusing avenue. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting. Architects taking bids, due March 5th. The following are figuring: Doak & Co., Crozer Building; A. R. Raff, 1635 Thompson street; Stacy Reeves & Sons, 2011 Market street; E. E. Hollenback, Fifteenth and Race streets; George Hogg, 1634 Sansom street; J. R. Jackson, Perry Building; William R. Dougherty, 1610 Sansom street; Smith-Hardican Company, 1606 Cherry street; Barclay White Company, Perry Building; Ketcham & McQuade, 1029 Brown street.

Church and Parish House, Forty-second and Woodland avenue. Architects, Duhring, Okie & Zeigler, Bailey Building. Owners, Protestant Episcopal Colored Church, care of architects. Brick, 1 story, 65x143 feet, slate roof, steam heating, electric lighting. Plans in progress.

Residence, Overbrook. Architects, Brockie & Hastings, 1713 Sansom street. Owners, Green Hill Farms Company, care of Wendell & Wright, Overbrook, Pa. Stone and frame, 2½ stories. Plans in progress. Too early for details.

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Dr. George Woodward, North American Building. Brick, 2½ stories, shingle roof, warm air heating, electric lighting, hardwood floors. Architect ready for bids in a few days.

Residence, Chestnut Hill, Philadelphia. Architect, Louis Carter Baker, 35 South Seventeenth street. Owner, Nathan Trotter, 36 North Front street. Stone, 2½ stories, 30x38 feet, shingle roof, electric lighting, hardwood floors (heating, reserved). Architect taking bids due March 9th. Stokes Bros., 6723 Musgrave street; W. J. Gruhler Co., 219 High street; George Roth & Sons, 230 East Graver's lane; Pringle Borthwick, 8018 Germantown avenue; Samuel Harting, 20 East Johnson street; J. P. Thompson, Real Estate Trust Building, are figuring.**Factory Buildings (alt. and add.) (3)**, Falls of Schuylkill. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, John and James Dobson, Inc., on premises. Stone, 3 stories, 20x40 feet, slag roof, steam heating, electric lighting, consists of toilets and dressing rooms. Architect will take sub-bids.**Residence**, Midvale avenue, Falls of Schuylkill, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, Charles V. Kelly, Lippincott Building. Brick, 2 stories, 16x64 feet, slag roof, hot-water heating, electric lighting. Owner taking bids. E. E. Hollenbeck, Fifteenth and Race streets, is figuring.**Residence**, Wissahickon avenue and Cliveden street. Architects, Savery, Scheetf &

Savery, Stephen Girard Building. Owner, Enos L. Seeds, 6314 Wissahickon avenue. Stone, 2½ stories, 42x42 feet, slate roof, electric lighting, hardwood floors (heating, reserved). Architects taking bids due March 10th. F. B. Davis, 35 South Seventeenth street; Specht & Sperry, Heed Building; and W. J. Cowell, 943 East Cheltenham avenue, are figuring.

Residences and Stores (6) (alt. and add.), 812 to 1222 Columbia avenue. Architect, B. J. Medoff, 524 Walnut street. Owner, Morris L. Miller, Commonwealth Building. Brick, 4 stories, new fronts, hot water heating, electric lighting. Owner is taking bids, due March 15th. The following are figuring: F. A. Havens & Co., 845 North Nineteenth street; Fred Quat, 1323 Snyder avenue; Samuel Schultz, 921 East Moyamensing avenue; Jacob Gorchov, 317 Reed street; Louis Cohen, 417 Christian street.**Residence and Store**, 2840 Richmond street. Architect, B. J. Medoff, 524 Walnut street. Owner, Abraham Schatz, on premises. Brick, 2 stories, 16x80 feet, slag roof, vapor vacuum heating, electric lighting. Plans about completed. Architect will take bids in a few days.**Store (add.)**, 525 North Second street. Architect, B. J. Medoff, 524 Walnut street. Owner, I. Wisotsky, on premises. Brick, one story, 12x30 feet, slag roof. Plans about completed. Architect will take bids in a few days.**Contracts Awarded**

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, 206-208-210 South Twenty-fourth street. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, J. J. Greenberg, Morris Building. Brick, 4 stories, 61x238 feet, slag roof, electric lighting, steam heating. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.**Factory (alt. and add.)**, 1222-1224 Race street. Architect, private plans. Owner, Wil-

liam Matsinger, 1135 Fairmount avenue. Brick, 3 stories, 33x98 feet, slag roof, electric lighting (heating reserved). Contract awarded to Wiler & Hart, 122 South Thirteenth street.

Garage, Oak Lane, Philadelphia. Architect, Valentine B. Lee, 1003 Spruce street. Owner, Henry Linde, Twenty-third and Columbia avenue. Stone and frame, 2 stories, 33x40 feet,**UNITAS
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tile roof, hot water heating, electric lighting, metal lath, gasoline tank and pump. Contract awarded to W. John Stevens, Wyncote, Pa.

Garage, Fifteenth and Mellon streets. Architect, George S. Idell, 34 South Sixteenth street. Owners, B. F. Dewees & Co., 1122 Chestnut street. Brick, 2 stories, 61x65 feet, slag roof, electric light, steam heating, gasoline storage. Contract awarded to P. J. Hurley, 1233 Cherry street.

Residence (alt. and add.), 5412 Chester avenue. Architect, F. G. Caldwell, Stephen Girard Building. Owner, E. F. Hoag, 1636 South Fifty-eighth street. Brick, 2 stories,

18x78 feet, slag roof, electric lighting (heating reserved). Contract awarded to George Downward, 2125 South Frazier street.

Office Building, Juniper and Chestnut streets. Architect, Horace Trumbauer, Land Title Building. Owner, P. A. B. Widener, Land Title Building. Stone and brick, steel and concrete, fireproof, 18 stories, 150x199 feet, slag roof, electric light, steam heat, hollow tile partitions, 16 elevators, waterproofing, metal lath, iron doors and frames, steel doors, metal windows and doors and trimmings. Contract awarded to George A. Fuller Company, Morris Building.

PENNSYLVANIA

Construction News

Freight Warehouse (add.), Pittsburgh, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick, steel and concrete, 3 stories, 50x450 feet, slag roof, steam heating, electric lighting, metal frames and sash, water-proofing, steel rolling shutters. Plans in progress.

Club House, West Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, New Century Club, West Chester, Pa. Stone and frame, 2½ stories. Plans in progress.

Apartment House, Ardmore, Pa. Architect, H. L. Reinhold, Jr., 1309 Walnut street. Owners, A. A. Harmer and Samuel R. Haws, Ardmore, Pa. Brick, 3 stories, 95x165 feet, steam heating, electric lighting, hardwood floors. Plans in progress.

School, Collingdale, Pa. Architect, W. L. Blithe, 608 Chestnut street. Owner, School Board of Borough of Collingdale, Delaware County, Pa. Brick, 1 story, 51x91 feet, slag roof, hot-air heating. Owner taking bids due March 16th. Plans may be obtained from Architect.

Schools, Steelton, Pa. Architect, Charles Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Steelton, Pa. Brick, 2 story and basement, 43x100 feet, slag roof (light and heat, reserved), iron doors and frames, steel rolling partitions. Owners have received bids.

Dormitory Building, Morton, Pa. Architects, Street & Stackhouse, Drexel Building. Owner, Dermady Sanatorium, Morton, Pa. Frame, 2½ stories, 45x62 feet, shingle roof, steam heating, electric lighting. Architect taking bids due March 4th. The following are figuring: S. B. Coleman, Rutledge, Pa.; A.

Sparks, Swarthmore, Pa.; Herbert Walton, Pa.; J. W. Worrilow, Media, Pa.

Club House, Edge Hill, Pa. Architects, Stearns & Castor, Stephen Girard Building. Owner, Lu Lu Temple Country Club, Broad and Spring Garden streets. Stone and frame, 2 stories and basement, 84x204 feet, shingle roof, steam heating, electric lighting, metal lath. Architect taking bids due March 4th. The following are figuring: James G. Doak & Co., Crozer Building; R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Baton, Tenth and Sansom streets; F. A. Havens & Co., 845 North Nineteenth street; A. Raymond Raff, 1635 Thompson street; J. W. Emery, 1524 Sansom street, all of Philadelphia.

Tenant House (add.), Radnor, Pa. Architects, Melor & Meigs, 205 South Juniper street. Owner, A. J. Drexel Paul, Radnor, Pa. Stone, 2 stories, 20x50 feet, 1 wing, shingle roof, hot-air heating. Architect taking bids due March 6th. The following are figuring: W. Harry Roberts, Newton Square, Pa.; George Croll, Dilworth, Bryn Mawr, Pa.

Store, Office, Hall and Apartments, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, W. G. Price, Jr., Chester, Pa. Brick, 3 stories, 40x42 feet and 16x60 feet, slag roof, steam heating, electric lighting, metal lath. Owner taking bids due March 9th. George Hogg, 1634 Sansom street, is the only bidder.

Residences (2), Melrose Park, Pa. Architect, Stanford B. Lewis, Lansdowne, Pa. Owner, J. Edmund Enich, 1001 Chestnut street. Hollow tile and plaster, 2½ stories, tile roof, hot-water heating, hardwood floors. Owner taking sub-bids.

Theatre and Dance Hall (add.), Reading, Pa. \$15,000. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner,

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Julius G. Houson, Tenth and Spring Garden streets, Reading, Pa. Brick and stone, 3 stories, 40x100 feet, slag roof and slate roof, steam heat, electric lighting. Architect taking bids due March 5th. The following are figuring: W. H. Kinney, C. H. Schlegel, Haupt & Rentz, D. Hunter, Beard Construction Co., C. Watz and L. H. Focht & Son, all of Reading, Pa.; Phelps & McAllister, Orange, N. J.; Adam Spatz and A. Ridenbush, Wernersville, Pa.

Houses (3), Reading, Pa. \$1,800 each. Architect, Calvin J. Young, Reading, Pa. Owner, Ella N. Ruff, Reading, Pa. Brick, 2½ stories, 13x52 feet, tin roof, hot-air heating, gas light. Plans in progress.

Residence, St. Lawrence, Pa. \$5,000. Architect, Harry Maurer, Reading, Pa. Owner, Warren Adams, St. Lawrence, Pa. Hollow tile, 2½ stories, 30x34 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Ready for bids.

Store and Apartments, Mauch Chunk avenue, Nazareth, Pa. \$15,000. Architect, Jacoby & Weishampel, Allentown, Pa. Owner, J. J. Mayorash, Nazareth, Pa. Brick, 3 stories,

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41x70 feet, slag roof, steam heating, combination lighting. Owner taking bids.

Store and Moving Picture Theatre, Palmer-ton, Pa. \$15,000. Architects, Jacoby & Weishampel, Allentown, Pa. Owner, L. Wolensky, Palmerton, Pa. Brick and terra cotta, 2 stories, 34x180 feet, slag roof, steam heating, electric lighting, tile approaches. Bids due in two weeks.

Residence (alt.), College Hill, Easton, Pa. Architect, William Michler, Easton, Pa. Owner, J. I. Kinsey, Easton, Pa. Stone and terra cotta, 2½ stories, 38x45 feet, slate roof, hot-air heating, combination lighting, hardwood and tile floors, metal weather strips, concrete foundation. Plans in progress.

Residence, College Hill, Easton, Pa. \$8,000. Architect, William Michler, Easton, Pa. Owner, William Bryan, Easton, Pa. Brick, 2½ stories, 50x38 feet, slate roof, combination lighting, hot-water heating, metal weather strip, concrete foundation. Plans in progress.

High School (add.), Perkasio, Pa. Architect, A. O. Martin, Doylestown, Pa. Owner, School Board, Perkasio, Pa. Brick and stone, 2 stories, 51x100 feet, slate roof, damp-proofing, hollow tile, fire-proofing, safety treads. Owners taking bids due March 14th. Owners taking separate bids on heating and lighting. Specht & Sperry, Heed Building, and J. W. Emery, 1524 Sansom street, Philadelphia, are figuring.

Hospital, Scranton, Pa. Architect, George I. Lovatt, 418 Walnut street. Owner, St. Mary's Memorial Hospital, Scranton, Pa. Brick and plaster, fireproof, 2 stories and basement, 64x109 feet, slag roof, mackite partitions (heating and lighting, reserved). Architects taking bids due March 5th. The following are figuring: William R. Dougherty, 1610 Sansom street; Guernsey-O'Mara Co., North American Building; Stacy Reeves & Sons, 2011 Market street; Melody & Keating, Bailey Building, all of Philadelphia, Pa., and the following, of Scranton, Pa.: H. J. Wolker, E. S. Williams, M. J. Ruddy, S. D. Sykes & Co., Ludwig T. Stipp and Peter Stipp.

Residences (4), Latham Park, Pa. Architect, Frank Seeburger, Pennsylvania Building. Owner, Estate of William L. Elkins Land Title Building. Stone, timber and rough cast, 2½ stories, slate, shingle and tile roofs, hot-water heating, electric lighting, hardwood floors. Architect taking bids due March 5th. The following are figuring: F. B. Davis, 35 South Seventeenth street; Specht & Sperry, Heed Building; Stokes Bros., 6723 Musgrave street; A. Whitehead, Inc., 1624 Latimer street; Milton W. Young, Overbrook, Philadelphia; John Morrow, Oak Lane; W. John Stevens, Wyncote, Pa.

Residence, Haverford, Pa. Architect, Mantle Fielding, 518 Walnut street. Owner, Robert Meade Smith, Jr., 1001 Chestnut street. Stone and timber, 2½ stories, shingle roof (heating and electric work, reserved). Architect taking bids due March 4th. The following are figuring: Graham-Campion Co., Heed Building; William R. Dougherty, 1610 Sansom street; William J. Gruhler, 219 East High street, all of Philadelphia.

School, Harrisburg, Pa. Architect, C. Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Harrisburg, Pa. Brick and stone, fire proof, 2 stories and basement, 115x175 feet, slag roof (heating and lighting, reserved, separate bids), wire lath, metal frames and sash, damp-proofing. Owners taking bids due March 18th. In addition to those

previously reported, J. W. Emery, 1524 Sansom street, Philadelphia, is figuring.

Double Residence, Bethlehem, Pa. \$7,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, A. Steinmuller, Bethlehem, Pa. Brick, 2½ stories, 34x45 feet, slate roof, hot-water heating, combination lighting. Owners taking bids.

Fraternity House, Lehigh University, South Bethlehem, Pa. \$20,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Delta Tau Delta Fraternity, South Bethlehem, Pa. Stone, 3 stories, 70x35 feet, tile roof, hot-water heating, combination lighting, hardwood floors. Owner taking bids.

Court House (add.), Allentown, Pa. \$300,000. Architect, R. S. Rathburn, Allentown, Pa. Owner, Lehigh County Commissioners, Allentown, Pa. Granite, 4 stories, 173x95 feet, tile roof, low pressure steam heating, combination lighting, tile and hardwood floors, cork insulation, metal frames and sashes. Owner taking bids due March 19th. The following are figuring: George H. Hardner, Butz & Clader Co., Stein & Co., J. A. Miller, all of Allentown, Pa., and Henry L. Brown, 1714 Sansom street, Philadelphia.

Church, Easton, Pa. \$50,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, St. Joseph's R. C. Church, care of Rev. A. M. Korves, Easton, Pa. Stone, 2 stories, 70x140 feet, slate roof, steam heating, combination lighting. Owners have received bids.

Store (add.), 21 North Seventh street, Allentown, Pa. \$15,000. Architect, E. M. Pickin, Allentown, Pa. Owner, Allentown House Furnishing Co., Allentown, Pa. Brick, 5 stories, 30x106 feet, slag roof, steam heating, combination lighting. Plans in progress.

Residence, Allentown, Pa. \$8,000. Architect, A. W. Leh, Bethlehem, Pa. Owner, Ed. Schwartz, Allentown, Pa. Press brick, 2½ stories, 29x50 feet, tile roof, hot-water heating, combination lighting, hardwood floors. Owner taking bids.

Residence, South Bethlehem, Pa. \$20,000. Architect, A. W. Leh, Bethlehem, Pa. Owner, Luigi Castellucci, Oak street, South Bethlehem, Pa. Stone, 3 stories, 40x60 feet, tile roof, hot-water heating, combination lighting, hardwood floors. Owner taking bids.

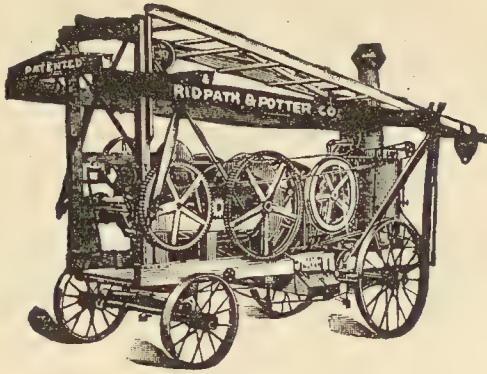
Residence, South Bethlehem, Pa. \$25,000. Architect, A. W. Leh, Bethlehem, Pa. Owner, A. C. Buck, South Bethlehem, Pa. Stone, 2½ stories, 40x81 feet, slate roof, hot-water heating, combination, hardwood floors. Owner taking bids.

Apartment House, Allentown, Pa. \$30,000. Architect, A. W. Leh, Bethlehem, Pa. Owner, M. A. Kuder, Allentown, Pa. Brick, 5 stories, 50x60 feet, slag roof, steam heating, combination floors. Owner taking bids.

Home (add.), Port Kennedy, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Society of St. Vincent de Paul, Hale Building, Philadelphia. Frame, 2 stories, 16x75 feet. Plans in progress.

Store and Apartment House, Ardmore, Pa. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owners, Primrose Flower Shop, Ardmore, Pa. Brick and frame, 3 stories, shingle roof, steam heating, electric lighting. Architect taking bids, due March 10th. The following are figuring: A. L. Fretz & Sons, 1822 Chancellor street; Chas. C. Pace, Merion, Pa.; Mowrer Bros., Merion, Pa.; E. T. Spencer, Ardmore, Pa.

Dining Room and Dormitory, Elwyn, Pa. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Pennsylvania



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nia Training School for Feeble Minded Children, Elwyn, Pa. Stone, 2 stories, 35x70 feet, slate roof, steam heating, electric lighting. Architect taking bids, due March 5th. The following are figuring: J. B. Flounders, 1329 Arch street; R. C. Ballinger Company, 218 North Thirteenth street; Metzger & Wells, Heed Building, all of Philadelphia.

Bank Building (remodeling), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owners, National Iron Bank of Pottstown. Stone and brick, 3 stories, slag roof, electric lighting, steam heating, banking fixtures. Architects taking bids. The following are figuring: F. H. Keiser, William H. Wiand, Butt & Knott, Copeland and Rapp, all of Pottstown, Pa.

Stable (alt. and add.), Gwynedd, Pa. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, R. B. Strassburger, New Stock Exchange Building, Philadelphia. Stone and frame, 2 stories. Architects taking bids. James B. Flounders, 1329 Arch street, Philadelphia, is figuring.

Pennsylvania

Contracts Awarded

Residence (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon

Building, Philadelphia. Owner, William Fronheiser, Pottstown, Pa. Brick, 2½ stories, electric lighting, hardwood floors. Contract awarded to William H. Wiand, Pottstown, Pa.

Residence (alt. and add.), Merion, Pa. Architects, Druckenmiller & Williams, Land Title Building. Owner, Louis A. Belmont, Seventh and Market streets. Stone, 2½ stories, slate roof, electric lighting. Contract awarded to E. J. Hedden Co., South Penn Square Building.

Residence, Mann and Locusts streets; Bethlehem, Pa. \$6,000. Architects, Jacoby & Weishampel, Allentown, Pa. Owner, F. E. Weinland, Bethlehem, Pa. Brick, 2 stories, 25x38 feet, slate roof, combination heating, combination lighting, hardwood floors, may use metal weather strips. Contract awarded to George H. Heller, Bethlehem, Pa.

Death House, Bellefonte, Centre County, Pa. Architect, John T. Windrim, Commonwealth Building. Owner, Board of Directors, Western Penitentiary. Stone and concrete, 2 stories, 51x228 feet, slate roof, electric lighting, steam heating. Contract awarded to Thompson-Starrett Co., Pittsburgh, Pa., who are taking sub-bids.

NEW JERSEY

Construction News

Residences (8), Atlantic City, N. J. Architect, Frank A. Hayes, 1524 Chestnut street. Owner, name withheld. Brick and frame, 2 stories, 16x40 feet, slag roof, hot-water heating, electric lighting. Architect taking bids due March 5th. The following are figuring: Hampton Bros., 4403 Atlantic avenue; W. S. Higbee, 112 South California avenue; C. P. Tilton, 9 South Pennsylvania avenue; E. Ellsworth Smith, 2809 Fairmount avenue, all of Atlantic City, N. J.

Library (add.), Trenton, N. J. \$50,000. Architect, Edward L. Tilton, 32 Broadway, New York City. Owner, Public Library of Trenton. Stone, 2 stories, 75x30 feet, slag roof, steam heating, electric lighting. Owners have received bids.

Apartment House, Atlantic City, N. J. Architect, J. C. Jefferis, 1001 Chestnut street. Owner, Henry Wiederheld, Land Title Building. Brick and concrete, 2 stories, 19x55 feet, asphalt roof, steam heating, electric lighting. Owner taking sub-bids.

Hotel (alt. and add.), Atlantic City, N. J. \$40,000. Architect, Seward G. Dobbins, Bartlett Building, Atlantic City. Owner, Mrs. E. Groogan, 138 South Tennessee avenue, Atlantic City, N. J. Brick, 5 stories, 50x75 feet, slag and asbestos shingle roof, steam heating, electric lighting. Plans in progress.

Stores (alt.) (3), 138 South Kentucky avenue, Atlantic City, N. J. \$3,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City,

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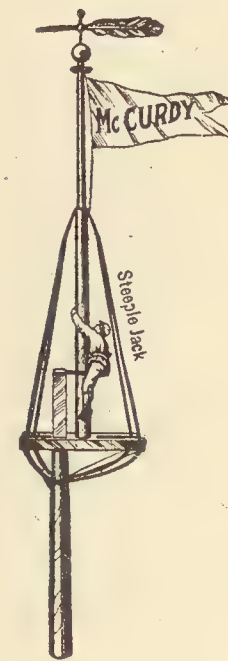
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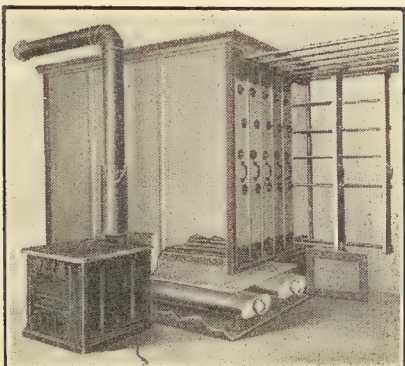
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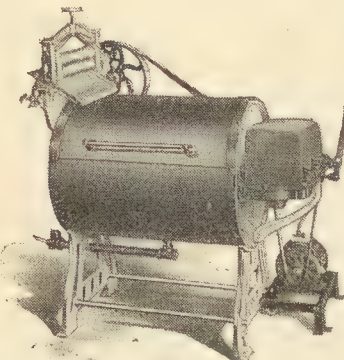
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PHONE SPRUCE, 62-91

N. J. Owner, Jacob Mizen, 2315 Atlantic avenue, Atlantic City, N. J. Brick, 2 stories, 44x67 feet, canvas roof, steam heating, electric lighting. Architect taking sub-bids.

Apartment House, Atlantic City, N. J. \$50,000. Architect, G. Seward Dobbins, Bartlett Building, Atlantic City, N. J. Owner, name withheld. Brick and concrete, 4 stories, 50x75 feet, slag roof, hot-water heating, electric lighting. Plans about completed. Architect will take bids in one week.

Garage, Atlantic City, N. J. Architects, Stout & Riebenack, Bartlett Building, Atlantic City, N. J. Owner, George K. Breintrall, 1530 North Sixteenth street, Philadelphia. Brick and concrete, 2 stories, slag roof, hot-water heating, electric lighting. Architects taking bids. E. L. Bader, Bartlett Building, and W. S. Higbee, 112 South California avenue, Atlantic City, N. J., are figuring.

Residence, Ventnor, N. J. \$7,500. Architect, Seward G. Dobbins, Bartlett Building, Atlantic City, N. J. Owner, name withheld. Brick and stucco, 2½ stories, 38x25 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Apartment House, Chelsea, Atlantic City, N. J. \$15,000. Architect, Seward G. Dobbins, Bartlett Building, Atlantic City, N. J. Owner, name withheld. Brick, 3 stories, 25x100 feet, slag roof, hot-water heating, electric lighting. Plans in progress.

School, Egg Harbor, N. J. \$14,000. Architect, B. Ireland, Bartlett Building, Atlantic City, N. J. Owner, School Board of Egg Harbor, N. J. Brick, 3 stories, 40x60 feet, slate roof, hot-air heating. Plans in progress.

Factory, Bloomsburg, N. J. \$20,000. Architects, Jacoby & Weishampel, Allentown, Pa. Owner, John H. Meyer, 5054 Union Square, New York City. Concrete and brick, 1 story and 2 stories, 40x80 feet and 80x177 feet, engine room, 42x60 feet, asbestos or slag roof, steam heating, electric lighting, double wood floors and concrete floors. Bids being taken due March 12th.

Residences (3), Perkins, N. J. Architect, H. B. Ward, Witherspoon Building, Philadelphia. Owner, name withheld. Frame and hollow tile, 2½ stories, 29x33 feet, 26x36 feet, 27x36 feet, tile and shingle roof, warm-air heating, electric lighting. Architect taking bids due March 11th.

Club House, Absecon, N. J., \$75,000. Architect, Frank Seeburger, Pennsylvania Building, and Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Seaview Golf Club, care of C. H. Geist, President, Land Title Building, Philadelphia. Brick and plaster, 2½ stories, 80x200 feet, green slate roof, steam heating (reserved), electric lighting, dampproofing and waterproofing, enameled bricks. Architects taking bids, due March 12th. The following are figuring: Charles Gilpin, Harrison Building; Roydhouse-Arey Company, Fidelity Building; William R. Dougherty, 1610 Sansom street; J. E. & A. L. Pennock, Land Title Building; R. C. Balingier, Company, 218 North Thirteenth street; Milton W. Young, Overbrook, Pa.; J. S. Rogers Company, Moorestown, N. J.; George W. Shaner, Palmyra, N. J.; W. S. Higbee, Atlantic City, N. J.; Mathis & Son, Atlantic City; Samuel Headley, Atlantic City; Knauer & Co., Atlantic City; Wilbert Beaumont, Atlantic City.

MISCELLANEOUS Construction News.

Restaurant Building, 106 West Forty-third street, New York City. Architects, Stuckert & Sloan, Crozer Building, Philadelphia. Owners, Horn & Hardart Co., 1559 Broadway, New York City. Brick, terra cotta and concrete, fireproof, slag roof, steam heating, electric lighting. Plans in progress.

Residence and Garage, Druid Hill Park, Baltimore, Md., \$100,000. Architect, Louis Levi, Real Estate Trust Bldg., Phila. Owner, Joseph Castelburg, Baltimore, Md. Stone, fireproof, 4 stories, 68x100 feet, water-

proofing, gasoline storage, electric elevators, metal frames and sash, tile roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Store (alt. and add.), Ninth and duPont streets, Wilmington, Del. \$6,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, J. Mullarkey, Wilmington, Del. Brick, 3 stories, 24x80 feet, tin roof, hot-water heating combination lighting. Architect will take bids in three weeks.

Apartment and Store (alt. and add.), Fourteenth and King streets, Wilmington, Del.

Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Brick, 3 stories, 20x80 feet, tin roof, hot-water heating, combination lighting. Architect will be ready for bids in three weeks.

Residence, Twenty-third street and Baltimore avenue, Wilmington, Del. \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, James J. O'Hara, Wilmington, Del. Brick, 2½ stories, 25x45 feet, slate roof, hot-water heating, combination lighting, hardwood floors. Architect will take bids in two weeks.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Felix Cantona (O), 1908 Rowan street. Cost, \$3,600. Three dwellings, brick, 2 stories, 15x54 feet, Eighteenth and Newcomb streets.

J. A. Cassidy (O), 600 South water street. Smith-Hardican Company (C), 1606 Cherry street. Cost, \$6,000. Garage, brick, 3 stories, 32x39 feet, 600 South Water street.

J. J. Conner (O), Fifty-second and Regent streets. Cost, \$15,000. Theatre, brick, 1 story, 43x140 feet, Fifty-second and Greenway avenue.

J. L. Price (O), 253 Lippincott street. Cost, \$7,500. Apartment House, brick, 2 stor-

ies, 25x50 feet, Fifty-third and Cedar avenue.

I. Dombrowski (O), 4653 Stiles street. Cost, \$10,800; six dwellings, brick, 2 stories, 14x33 feet, Margaret and Melrose streets. Cost, \$2,000. One dwelling.

G. Gunita (O), 931 South Ninth street. Cost, \$4,000. One dwelling, brick, 3 stories, 25x40 feet, 931 South Ninth street.

William Rittenhouse (O), Germantown, Pa. William Heisler (C), 1048 Stella street. Cost, \$4,200, two dwellings, brick, 3 stories, 16x30 feet, Kingsley and Wissahickon avenue.

Alterations and Additions

W. Butler Company (O), 225 Arch street. F. A. Havens Company (C), 845 North Nineteenth street. Cost, \$1,500. Warehouse, 225 Arch street.

Freihofer Baking Company (O), Twentieth and Indiana avenue. P. Haibach Cont. Co. (C), Twentysixth and Thompson streets. Cost, \$4,200. Bakery, Twentieth and Indiana avenue.

A. Block (O), 2755 Kensington avenue. M. Morrison (C), 2322 Howard street. Cost, \$2,000. Store and dwelling, 2755 Kensington avenue.

Lit Brothers (O), Eighth and Market streets. Cost, \$6,700. Warehouse, Twenty-first and Alter streets.

Crane Ice Cream Company (O), Twenty-third and Manning streets. Stuckert & Sloan (C), Crozer Building. Cost, \$7,500. Manufacturing building, Twenty-third and Manning streets.

Fibre Rock Manufacturing Company (O), 4566 Silverwood avenue. W. H. Eddleman (C), 453 Green lane. Cost, \$500. Factory, 4566 Silverwood avenue.

Morris Auerbach (O), 319 South street. Harry Miller (C), 421 Catherine street. Cost, \$2,500. Store and dwelling, 317 South street.

J. M. Furey (O), Seventeenth and Carpenter streets. W. E. Biscoe (C), 3854 Ludlow street. Cost, \$3,000. Dwelling, 1701 North Fifty-second street.

Baer & Snyder (O), Seventeenth and Carpenter streets. F. E. Wallace (C), 1210 Sansom street. Cost, \$4,000. Store, Seventeenth and Christian streets.

S. H. Ashman & Sons (O), Tioga and Tulip streets. L. Douglass (C), 128 South Second street. Cost, \$3,000. Forge shop, Tioga and Tulip streets.

Pennsylvania Company (O), 517 Chestnut street. J. Duncan Company (C), 920 Walnut street. Cost, \$6,200. Storage, 33 and 35

South Water street. Cost, \$1,700. Storage, 34 South Delaware avenue. Cost, \$800. Store, 31 South Water street. Cost, \$1,500. Restaurant, 36 South Delaware avenue.

W. J. McCahan Sugar Company (O), Tasker street wharf. Cost, \$1,200. Warehouse, Tasker street wharf.

United Gas Improvement Company (O), Broad and Arch streets. Cost, \$750. Stack, Venango and Balfont streets.

G. W. Smith & Co. (O), Thirty-ninth and Powelton avenue. J. N. Gill Co. (C), Heed Building. Cost, \$12,000. Storage, Thirty-ninth and Powelton avenue.

Berneheimer & Sydenham (O), 1001 Chestnut street. H. Whitelaw (C), 5118 Willow avenue. Cost, \$775. Storage, 740 South Fifth street.

M. Getz (O), Fifteenth and York streets. M. Yellin (C), 712 North Franklin street. Cost, \$2,800. Store and dwelling, Fifteenth and York streets.

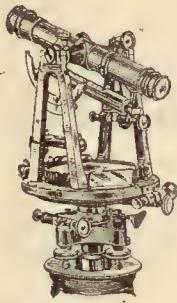
Stokes & Smith Co. (O), Summerdale, Pa. C. West, 1034 Herbert street. Cost, \$1,000. Factory, Summerdale, Pa.

C. H. Colkert (O), 2008 DeLancey street. J. Duncan (C), 920 Walnut street. Cost, \$1,000. Dwelling, 2008 DeLancey street.

Dime Realty Company (O), 153 Levering street. Cost, \$15,000. Theatre, 153 Levering street.

H. A. Bandis (O), 2729 Taney street. L. Coplan (C), 1623 South Eighth street. Cost, \$1,100. Dwelling and store, Thirtieth and Huntingdon streets.

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"TRIMMING" THE BUILDER

The Story of an Architect's Rise to Fame and Fortune
as Narrated by Mr. Theodore Starret

[Theodore Starrett, the widely known builder, is writing an occasional article for "Architecture and Building." His story in the February number tells how a canny architect caused a number of guileless builders to lose money.]

As I was saying several months ago when I told about the handsome merchant who traveled through the western border country in a highly decorated peddler's wagon, this writing has an object. I want to say here by way of correction that when he threw the skein of ribbon over the crowd the bearded stranger said, "I want the attention of about four thousand." I left out the word attention in my account of the important event.

What I am after is to get the attention of a whole lot of people, and they ought to be young people—people with their careers before them instead of behind.

There is a story, most of which I unfortunately have forgotten, of a remark made by a member of the Colonial Congress at one of their meetings in Philadelphia. Those great old boys were not unaware of the danger of their position, and they chaffed one another about it. There was a picture on the wall of their meeting room which showed the sun near the horizon. The sight of it suggested to one of the members to make a facetious remark about whether the sun in the picture was setting or rising. Fortunately, they could take their choice, and it was the sentiment of the meeting that the sun was rising—upon the Continental Congress and free America. And so it has come to pass.

The future of architecture and building is in the hands of the rising generation. Those who have arrived have made their fortunes and their reputations, and they are doubtless satisfied with things as they are. I have in mind one of them, an architect of credit and renown, who graduated from a trade—we will say he had been a carpenter. He was young, ambitious, and he could see through a hole in a ladder. He began as superintendent for a big architect, one who was well established. He soon won a partnership, for his employer was old and lazy.

It was twenty years ago and business was just emerging from a panic. The men who held the money were the ones who loved it most; they had fought hardest for it and clung tightest to it. They let it go grudgingly. This young architect made a great play with these men of money that he could get their buildings done cheaply. He could, and he did.

Knowing contractors, almost all of whom are ex-mechanics, our young architect, who had been a mechanic himself not so long before, knew the contractors' nature, and he was able to work that dear old gag so familiar to those who know the inside of the business. When the bids were in he would never think of sending for the lowest bidder. No. He would let the bidders alone for two or three days while they wondered what was up. Then, prompted by perfectly legitimate curiosity, they would come around and ask how they stood. Now, there were several ways of handling a contractor in this state of mind; one was to tell him that he was away too high.

As bidding on work is after all nothing more nor less than guess work, it was easy enough to shake the contractor's confidence in himself, especially as the architect had not so long before been in the contracting line and presumably knew a whole lot about it. He would go over the contractor's estimate and show him his mistakes. This price or that price might be shaved ten or fifteen per cent.; this item and that item could be eliminated by good management. Almost invariably the estimate could be very materially reduced. That was one way of bringing down the price.

Another way was to ignore the low bid and to send for some likely looking individual, some ambitious young contractor, particularly some man that had a little money to lose—a lot of money would be better still. This victim was sent for and told by the architect that he knew him, had seen his fine work and had seen evidences of his wonderful mental powers and high executive ability and future greatness. The contractor would be flattered to the top of his bent and then told that the architect wanted to employ him,

"Building for To-morrow"

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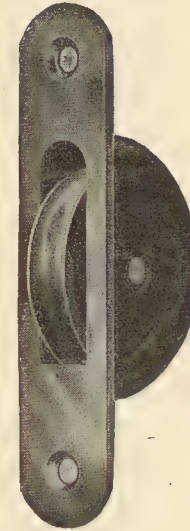
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that the owner knew him and liked him—but, unfortunately, his figure was twenty or twenty-five or thirty per cent. out of the way. Almost always this architect brought down his fan. If occasionally he found some fellow that was a little bit hard-headed, he would drop him and send for another. There was always somebody to be blandished into taking the job at figures so low that it was a foregone conclusion that he would lose his roll on it.

This architect has now retired, full of ill-gotten gains. Whether he has a conscience that sometimes pricks him as he thinks of the money that he was instrumental in transferring from the pockets of contractors to the pockets of his wealthy clients I do not know. As I said, he has retired, and it is up to all those interested to consider whether the future of architecture and building lies in supporting and feeding others like him.

And now for a story of the dawn, a story of hope for architecture and building. We have just come through, or are coming through, another period of hard times, and the money is again largely taken from weak hands and held by strong ones. Human nature is the same as it always was, and the strong can make themselves stronger by taking advantage of it. But here is the story, literally true, as was the other one.

A young architect, fairly well equipped for his business, with a knowledge not only of architectural anatomy, but of building costs, was employed by an owner to do a certain piece of repair work. The architect studied the problem and made his design and got his estimates. The lowest was very low; the next figure was almost three times as great, and from that up. It looked as if the low bidder had made a mistake. Our young architect made his own estimate and came to the conclusion that the low figure was a

reasonable one and that the contractor could do the work for that sum and make a profit if he had the assistance and co-operation of the architect. The facts were laid before the owner, who, thank God, was of a different breed from those who fattened our first friend. He did not want to rob the contractor. He was a little bit skeptical as to his ability to do the work for the amount of his estimate, but he was willing that it should be tried. To make a long story short, they worked together; the architect spent almost his entire time supervising and directing the contractor. The work was done promptly and the contractor made a profit. Now the architect has all the business of that owner, running into millions per annum.

This story is just as true as the other one, but which of these two ways of doing business do you consider the more desirable?

If you, gentle reader, knew all that I do about those two men and the circumstances, you would take heart. If you are an architect, you should be glad to know of a great success based on merit and square dealing. If you are a builder, you should be glad to know that there are men of money who are willing to let somebody else make a dollar. If you are neither an architect nor a builder, but merely a plain, ordinary citizen, perhaps you are interested in this account of two ways of doing business and glad that the story of co-operation is the more modern one. Perhaps you feel as I do and regret that the ex-mechanic was allowed to pursue his career for twenty years, strewing his path, metaphorically speaking, with wrecks of contractors' fortunes. I understand he is wealthy and enjoys his well-earned ease.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

An advertisement should stick out like a sore thumb without being so sensitive.—"Novelty News."

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

You can't get figs from thistles. Nor can you get an assured income from a shoe-string advertising proposition.

One way to escape the income tax is to quit advertising and do less business.

BUYING BUILDING MATERIALS

Some Timely Tips for the Building Manager and Owner's Representative.

At some time or another the building manager or owner must enter the building material market for supplies. Those supplies may be for new buildings or for alterations. Frequently the contractor is employed to make the purchases, but in this department the building manager or owner's representative has an important part in making sure that the quality of materials he is paying for is brought to the job. Team work between the building manager and the contractor is essential, and some of the leading contracting houses of the day have systematized this work so that the building manager in figuring on the completion of the structure may know exactly when he can promise his tenants occupancy. This is the way L. C. Wason, in "Problems of the Contractor," describes how one contracting firm caters to the building manager.

"In the purchase of manufactured articles such as doors and windows, and in letting sub-contracts, hundreds of dollars can be saved and better results obtained if handled by a person who by long experience has become familiar with all the details of the materials themselves, the dealers and manufacturers in various localities, and who is also familiar with the relationship of all these materials to one another, as well as with the estimate and contract.

Paying for Sash Priming Twice.

"To illustrate one little point where a subdivision has caused expense. In order to save time, window frames have been bought by the job superintendent from a local mill. These are sometimes primed with paint by the manufacturer, and sometimes are not. If the painting contract is let by another person without knowing what has been done with window frames, it has happened that priming has been paid for twice.

"Similarly, all changes, either additions or deductions, from the original design, should be handled by one person in order to see that no mistakes are made.

"The purchasing department never buys an unknown sand until it has been thoroughly investigated by a laboratory, although this may cause an annoying delay. The tests continue at intervals throughout the progress of a job. Once, gravel from the most available pit had a coating of a reddish substance appearing to the eye to be clay, which was strong enough to hold grains of sand to the stone even after it had been handled roughly with a shovel. By the usual eye and hand tests this material would have been rejected, yet samples sent to a cement-testing laboratory showed on the average about 150 per cent. of the strength of the same cement with standard sand. It seemed peculiar that the fine red material should have no injurious effect on the tensile strength tests of

briquettes with bank sand, while low compression tests were obtained on cubes made with gravel.

"The laboratory testing the same reported that under the microscope this fine red clayey material was really a very gritty substance, and called it finely pulverized rock. It clung tightly to the stone, binding to it particles of sand, and yet washed off when shaken in water. It appeared that if this fine material could be removed from the surface of the stone, and if it was not too plentiful, a perfectly satisfactory concrete would be obtained with this aggregate. Experiments made by keeping a batch in the mixer a longer time than is usually the custom appeared to clean the stone, and good, hard concrete was obtained with a not objectionable pink tint. Extra mixing was done throughout the job with complete satisfaction.

"The lumber and steel schedules are generally the first to demand attention. Lumber used in contact with cement is almost always ordered planed four sides. A correct ordering schedule for lumber cannot be made, of course, until the work of detailing forms is nearly completed in the drafting room. It is possible, however, to make an approximate schedule for canvassing for prices. By referring to standards it is often possible to tell in advance what siles are wanted, and in this way to be ready to order material forward immediately whenever centering details are completed. As lumber arrives, the material of different dimensions, qualities and finishes is filed by a prearranged plan worked out in the office, handy to the woodworking shop, and given a number or letter obtained from the key plan.

Cutting Down Steel Cost.

"The steel is taken off the plans by one man and checked independently by another. This schedule is then studied in regard to reducing the variety of lengths, and frequently these can be reduced to one-fifth of the number shown on plan. It is usual to order a schedule of bars three-quarters inch and larger in multiples of six inches, and to buy steel five-eighths inch and under in the longest lengths that can be put on a single flat car, and cut it up on the job.

"The largest size recommended, in the square, is one and one-quarter inch, and one and three-eighths inch in the round; the smallest, one-quarter inch; all sizes to be multiples of one-eighth inch.

"On one large job there were over 400 different lengths of bars shown on plans, and by scheduling large bars in multiples of six inches and ordering small bars in long lengths, as above described, the mill order was reduced to 46 different lengths. This method increased the weight of order so as to cost only eigh-

teen dollars in excess of the exact schedule taken from plans. This amount was saved many times over in the greater convenience of sorting to deliver the small bars in bundles weighing from 125 to 145 pounds. This insures the men getting a load of proper weight for greatest efficiency. They are also easier to handle, with no picking up of one bar at a time and the trouble of unraveling that is found with small sizes."

ARCHITECTURAL NOTES.

The architectural firm of Cram, Goodhue & Ferguson has been dissolved, Messrs. Cram and Ferguson continuing the practice of the former firm at 15 Beacon street, Boston, and 33 West Forty-second street, New York. Mr. Bertram Grosvenor Goodhue will continue the practice of architecture at 2 West Forty-seventh street, New York City.

* * *

In connection with the Panama-Pacific Exposition there is to be a very comprehensive architectural exhibit. This will be found in the Palace of Liberal Arts and the display will consist of drawings and models of public buildings of every character which enter into metropolitan life. In addition to the designs, there is promised a very comprehensive collection of detail drawings presenting varied methods of construction, fireproof and non-fireproof as well as an exhibit showing methods of fireproof construction and provision for escape from, and prevention of, fires, and fire fighting.

* * *

The next convention of the American Institute of Architects will be held in Los Angeles and San Francisco will be included in the itinerary of the visiting architects. This will give many members of the Institute, who expect to visit the Panama-Pacific International Exposition, an opportunity to so plan their trips as to attend the annual convention. The San Francisco Chapter of the Institute was very active in promoting the movement which made Los Angeles the convention city.

HENRY M. MILLER'S NEW HEAD-QUARTERS.

Henry M. Miller, formerly of 40 North Second street, is now located at 46-48-50 North Second street, where with more spacious quarters and greatly enlarged facilities he will be delighted to greet new and old patrons. Mr. Miller is agent for the March-Brownback Company and the Weir Stove Company, manufacturers of the Glenwood Combination Gas and Coal Range and the Crown Furnace and Globe Range. He handles a complete line of stoves, ranges, furnaces and refrigerators and is a recognized leader in this field.

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—Ex.

CONCRETE AND CONCRETE MIXERS

In these days when we speak of concrete we refer to Portland Cement Concrete, this kind of cement being the best as well as the latest of hydraulic cements.

The merits of hydraulic cement were well known to the ancients, more particularly to the Romans, who used a concrete in which this material entered for a foundation for the famous Appian Way, also in the building of those great aqueducts, the remains of which are still to be found, scattered over all Italy and the south of France. The more important part of the great dome of the Pantheon, over one hundred and forty feet in diameter, is constructed of concrete of this order, and, though built some two thousand years ago, is as good to-day as ever.

The hydraulic cement of the Romans was a natural cement; this is to say, it was made in the ordinary way, by mixing lime with volcanic ash, such as can be found in extensive deposits in the neighborhood of Vesuvius, and other volcanoes. Cements of this kind are still exported by Italy, under the name of pozzuolanas. As such, they are sometimes specified in modern practice for special purposes. For general construction purposes, however, pozzuolana is altogether outdistanced and outclassed by good Portland cement, such as can be obtained to-day at a moderate price, and everywhere.

Modern Portland Cement.

The first of the modern hydraulic cements was made in England in 1790, by Joseph Parker, who called his product Roman cement. The father of Portland cement, as now known to us, is, however, Joseph Aspdin, a bricklayer of Leeds. He named his product after the Island of Portland, where is quarried a highly esteemed stone, of which St. Paul's Cathedral, London, is built; the color of the stone suggested the name.

Portland cement was first manufactured in a commercial way in the United States at Coplay, Pennsylvania. For a time progress was slow. Even as late as 1896, the total native yield did not exceed one million barrels a year; engineers and architects, as late as that date, almost invariably preferring imported brands. Since then, however, a marvelous change has taken place. To-day this country leads the world, not only in the quantity, but the quality of its cement products. As a record of advance made, the following figures are eloquent: 1896, 1,000,000 barrels; 1900, 8,500,000; 1905, 35,000,000; 1908, 51,000,000 barrels; 1911, 78,000,000 barrels. Assuming this rate of progress to be maintained, we may safely assume that the United States will produce over 100,000,000 barrels of Portland cement during the current year.

There is a lesson in these figures for the builder; one which the wide-awake contractor has already taken to heart, and used to his own advancement and profit.

The Cement Age.

Some have called this the cement and ce-

ment-concrete age. They are right. To-day these materials are being used for all kinds of purposes, from small ornamental objects such as vases and garden seats, to engineering works of the most stupendous character; of which last, the Panama Canal is the latest and best known instance.

The strength of concrete depends mainly upon the right selection of materials used; their natures, proportions, and thorough incorporation with each other.

All aggregates should be clean, and the best are those that present rough and jagged surfaces, so as to provide a key. The sand should be coarse and sharp. If it is gritty to the touch, so much the better. The denser sands, being the heavier, are to be preferred. If more than five per cent. of clay or loam is present, sand should be washed, so as to get rid of excess. The sizes of the aggregates should be well graded, so as the mixed mass will, as far as practicable, be free from voids.

The heavier aggregates are preferred in the following order: granite, gravel, limestone, clay, sandstone, cinders. Porous stones (like sandstone) are relatively weak. In all cases, angular fragments are to be preferred, more particularly when the concrete is to be subjected to tensile strain, such as beams, warehouse floors, etc.

Concrete for Fireproofing.

Slag and vitreous stones are best for fireproofing purposes. Broken bricks and cinders are also good fire resistants. Cinders should be passed through screen before being incorporated. The size of stone depends upon where and how the concrete is placed. In heavy work, and when carefully deposited, stone that will pass through a three-inch ring are frequently specified. For floors, columns and reinforced construction, one-inch. For thin walls (4-inch partitions, for example), three-quarter inch. In extra heavy constructions, such as dams, bridge piers, etc., where the thickness is measured by the yard, stones of over three cubic feet are sometimes placed and with good results, with an economy of something like 25 per cent. In all such cases care should be taken that these big stones or rocks be kept at least two inches from all exposed surfaces. Work of this kind is, however, out of the order of regular practice, and the average contractor has seldom to handle it. We refer to it here to throw a sidelight, as it were, upon the entire problem.

The amount of cement to be used is determined by the voids between the larger aggregates. A simple way of determining the matter is to carefully measure and mix the sand and stone together and place in a water-tight receptacle. Shake well down, then add water slowly, by tilting against interior side of receptacle, so water may rise gradually from the bottom, thus avoiding air bubbles. When water shows upon surface, stop. The volume of the water thus added represents (theoreti-

(Continued on page 149.)

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Editorial Comment

Mr. Frank A. Munsey, the millionaire editor of "Munsey's Magazine," was a writer of considerable reputation long before he started in to accumulate millions as a publisher of popular magazines. Indeed, if put to it by necessity, Mr. Munsey could keep the proverbial wolf at a respectable distance with the aid of his talented pen alone, as an article written by him for the March number of "Munsey's" bears eloquent testimony. This article, dealing with "The Giant Hotels of New York," is one that "The Guide" thinks should be looked up and carefully read by every architect and builder in the United States. Mr. Munsey knows his New York as M. Anatole France does his Paris, or as Mr. Bernard Shaw does his London. Mr. Munsey demonstrates most convincingly in the article to which we have referred that he also knows the hotels of New York—not superficially as most of us know them, not on the surface side usually presented to the public which wines and dines and fees waiters and bell-hops, but comprehensively and down to the subterranean mechanism—behind the scenes, as it were, in the vast busy, systematized order of things which produces the effect visible in the brilliant cafe, the fairy-like roof garden, and the other and lesser appurtenances of the great modern caravan-serie. Mr. Munsey takes his readers behind the scenes; he shows the man who flatters himself that he knows everything there is to learn about the big hotel of the present day that there are a number of things about modern hotel management that can be learned only from the inside—the amazing kitchen, for example, with its many subdivisions, the china, crystal and silver rooms, the linen rooms, the laundries, the wine room, cigar and grocery store rooms, meat, poultry and game rooms, vegetable and fruit supply rooms. The room in which sea food exclusively is handled and prepared, the bakery, the new hospital room equipped with every device necessary for emergency treatment, the children's play room, the food-testing laboratory, the room for woman's hair dressing, the dishwashing department, with its labor-saving devices and system of inspection to prevent dishes not scrupulously clean from reaching the fastidious guest. The various repair rooms, including rooms in which the silver is periodically replated and nicks are ground out of the glassware, the dynamo room, the print shop, in which menu and other small work is executed, and the machine, carpentering and upholstering shop, in which necessary repairs are made without calling in outside help or subjecting the house to tedious and oftentimes expensive delay. Then there is the refrigerating plant, the room in which ice is cracked for the daily demands of an army of guests, and the key room, which not only keeps the run of but

which is prepared to supply duplicates at brief notice of any key in the house.

We'd like to quote from the article at some length, but it's copyrighted, and Mr. Munsey might not approve of a too liberal borrowing from its pages. Get the March number, Mr. Architect, and read it. You'll thank "The Guide" for directing your attention to it. Philadelphia has started building hotels of the giant variety. She is destined to build many more of them. The young architect who misses the opportunity Mr. Munsey presents in this most entertainingly written article will deserve small sympathy if one of these days a commission of this size comes his way and finds him unprepared. We cannot recall an article dealing with the subject able to claim a tithe of the thoroughness, detail and completeness shown in this notable Munsey contribution.

* * *

The architect who plans a municipal building is to be pitied. Especially if the new building is designed to take the place of another and involves a shifting of departmental quarters. The average city official is about as hide-bound a kicker as it's possible to dig up. When you move him you move his kicking propensities. And when he gets going he's like a 90 horse-power racing machine that has shipped its steering gear. There's nothing small, or narrow, or mean, or circumscribed about the kicking that ensues. Everything and everybody is damned from the design of the building to the architect who planned it and the builder who put it together. The lay-out is wrong, the design is bad, the construction is faulty, the materials are no good and the equipment is all wrong. Take the New York Municipal Building as a case in point. Everybody seems to be kicking in unison. It's a regular anvil chorus. And yet we have no doubt that the new Municipal Building is about as good a building of its kind as it is possible to get anywhere for the money. The grouch emerges from the circumstance that as a result of its erection a whole lot of rather comfortably situated departmental chiefs have had to change their quarters. In a few cases the new quarters have pleased. In a majority of instances they have not. We had the same condition of affairs here in Philadelphia when the departments came to be shifted from Sixth and Chestnut to the new City Hall. Have it yet for that matter. The writer knows a dozen officials in City Hall who will tell you they could plan a better building with one hand tied. And yet, aside from certain architectural idiosyncrasies the City Hall is not a bad building for the general purpose for which it was designed. True, the growth of the city's business has proved it a trifle small and inadequate, but this is a defect which will remedy itself when the

courts go into a Temple of Justice to be erected on the new Parkway and the Health Department is similarly provided for. When the New York officials become used to the new order of things the general chorus of fault-finding will gradually die out. In the end the building will find favor as an excellent edifice of its kind. We may hardly envy the architects until this co-ordination of circumstances occurs. Like Mr. Gilbert's constabulary, their lot is "not a happy one."

* * *

"The Guide" is in receipt from the David Williams Company, 231-41 West Thirty-ninth street, New York, of a copy of "The New Building Estimator," described as a practical guide to estimating the cost of labor and material in building construction from excavation to finish; with various practical examples of work presented in detail and with labor figured chiefly in hours and quantities. This volume, most attractively printed, gilt edged and bound in flexible leather, is the eleventh edition, and represents the latest revision and enlargement of this standard work. It is difficult to see how any man engaged in the building line could get along without a copy of this valuable handbook within easy reach. It is an almost invaluable aid to the man who is called upon to figure estimates in building work, and contains in addition, a budget of authoritative data covering a host of correlative subjects well worth the careful study of the man who aspires to success in this and related fields. The volume is of convenient size, admirably ordered and should find a place in the office of every builder in the country, big or small.

CONCRETE AND CONCRETE MIXERS.

(Continued from page 147.)

cally) the volume, or bulk, of the cement required, allowing perfect mixture. The prudent engineer always adds a margin for safety.

It may be laid down as a general proposition that the denser and heavier the concrete, the better. The weight of a cubic foot of ordinary concrete may be roughly placed at one hundred fifty pounds; cinder concrete—the strength of which varies from 50 per cent. to 75 per cent. of ordinary stone or gravel concrete—weighs about one hundred ten pounds per cubic foot.

Concrete may be rich, ordinary or lean, according to the service for which it is intended, and location in which it is placed. Rich concrete (proportions 1:2:4) is very strong, and well adapted for all kinds of reinforced construction; floors, beams, columns, cisterns, silos, walls, etc. Ordinary (concrete proportions 1:3:6) is suitable for massive work, such as embankment walls, abutments, foundations, sidewalks, etc. Lean concrete (proportions 1:4:8) is weak in tensile strength, but will answer well enough under compression; heavy foundations, sub-base for drive-ways and other road beds, etc.

Mixing.

No matter how excellent the materials used

and the scientific accuracy with which they are proportioned, the concrete will not be reliable unless the aggregates have been thoroughly, that is to say homogeneously, mixed throughout the job. This is a basic fact from which there is no getting away, and the contractor who desires to earn a reputation for being dependable (a considerable asset when figuring with reputable concerns), should bear it constantly in mind.

The old-fashioned hand-mix is, at least in the larger and more profitable kinds of work, out of date. Hand-mix, however well done, is seldom perfect, and is always relatively costly. Human muscles, however willing, tire and fail; machinery never tires, and works unerringly if built upon right principles.

There are now available all kinds of mechanical concrete mixers, suitable for all sizes of jobs, and to be obtained at moderate prices. A good mixer will pay for itself upon a single job of fair size, and leave a margin for profit.

Continuous and Batch Mixers.

Aside from the vertical or gravity mixer, which has but a limited application, mostly in mining districts, and which consists of an enclosed shaft, in which are placed a number of interferences to divert the aggregates as they descend, a spray of water being introduced midway, concrete mixers may be divided into two general classes, continuous mixers and batch mixers. Quite a number of these mixers can be adapted to either form of delivery by the simple method of introducing a gate or cut-off, controlled automatically or by hand.

The best known continuous mixer consists of an open trough (placed horizontally, or with slight incline to delivery end to assist movement), fitted with a longitudinal shaft to which are attached blades and paddles, so arranged as to cut up and amalgamate the aggregates, and keep them moving onward. The materials are usually charged from a platform at rear end, by means of wheelbarrows or carts. Sometimes, however, in connection with heavy roadwork, materials are thrown direct from heaps ranged along the line of travel, upon a moving belt, by a gang of men engaged specially for that purpose. Water is introduced by means of an overhead sprinkling arrangement, delivery being at such points as may be selected. Sometimes the ingredients are mixed dry for the first half of the length of the trough. Mixers of this variety are equal to a large amount of work, two hundred yards a day being but a moderate output.

A small continuous mixer, with some novel features, has recently been placed upon the market. It claims a capacity of sixty yards a day. The mixing is effected in an open revolving dish, or pan, in which the materials are agitated by stationary plows, or blades. The desired proportions are delivered in the center of a revolving disk through hoppers; cement and gravel from one side, stone from the opposite side. Under centrifugal action, the materials move gradually outward; as

they do so they come under the action of the blades. The aggregates are first mixed dry, and then, about midway, they are wetted, the water being furnished from a tank. The mixer is provided with an automatic feed, and the discharge is effected at a given point in a continuous stream.

The popular rotating mixer now to be seen in operation everywhere, is substantially based upon the old cube mixer, with such additions as time and experience have suggested. This old-fashioned arrangement is merely a hollow steel box which revolves about a horizontal shaft that passes through it diagonally. The entire contrivance is mounted upon a stout timber frame. The box is charged at one corner, all outlets closed, aggregates revolved, and delivery effected at the opposite corner into a hopper.

The best known batch mixers to-day are of the well-known rotary order. There are many differences in details between the various makes, but the underlying principles are substantially the same in all. In this line, as in other lines, competition has resulted in the survival of the fittest.

The modern rotary mixer consists of a revolving drum or double cone, the interior being fitted with strong deflecting blades, which mix and churn the aggregates in passage.

In some instances the service is direct, that is to say, the materials are wheeled onto a low platform, which is portable with the outfit, and is charged directly into the end of the drum, where it is caught by the charging blades, which are part of, and rotate with, the drum. This solves the problem of low charging and dispenses with hoisting hoppers. The drum is supported by trunnion rollers which tread against the flare of the track bands. It is rotated by pinions meshing into the gear bands, the power being transmitted through the shaft on which these pinions are placed.

The double-cone mixer, though built upon much the same principles as the above, differs in several important particulars. The full charge is delivered at once by means of a side loader, which is filled while the preceding batch is being rotated in drum and delivered, thus avoiding all delays and securing a perfect uniformity in the batches. The fact that the loader bucket is fitted at the ground level considerably facilitates operations.

In a well devised mixer of the double-cone variety, the drum is in perfect balance, the batch swings on its own center, and the tilting axis is below the center of gravity. In some makes, the tilting motion (operated by means of a lever) is reversible, permitting discharge at any part of the revolution.

The drums of this variety of mixer are variously supported, according to the ingenuity and preferences of the individual makers. Power is transmitted either by means of gearing or by pulley and continuous band.

Batch mixers can be had in all sizes, from a capacity of 2½ cubic feet up to two cubic yards and over. The sizes in greatest demand range from four cubic feet to thirty

Important to Builders

Builders and Contractors who are preparing plans for residence building operations should not fail to incorporate in their plans the comprehensive Electric wiring of all buildings to be erected. It is certain that properties Electrically equipped will sell or rent more quickly than unwired houses.

We have facts and figures to show you.



cubic feet. Sizes over the last, unless required for special purposes, are apt to prove unwieldy for the requirements of the average contractor, owing to weight and labor required in moving around, from place to place, and even upon the same job.

The smaller mechanical mixers can be worked by hand, if ordered that way. The medium and large mixers are operated by power and are furnished with boiler and steam engine, gasoline engine, or electric motor, as purchaser selects. Mixers are also furnished with water tanks and other attachments, as circumstances or special conditions may call for.

However carefully mixed, a certain amount of splashing attends the making of all concrete, and cement is hard upon machinery. To meet this trouble, some makers completely encase the more important parts so that dirt is absolutely excluded. The whole casing is kept constantly full of grease, keeping the running parts cool and efficient. As this grease is squeezed out of the bearings in a gradual and constant flow, it excludes all entrance of dirt. This adds materially to the life of the mixer and renders its operations smooth and regular.

Care should be taken that the rotatory is not unduly speeded up, so as to establish a centrifugal action in excess of requirements, and in a way to counteract the gravity action which is desirable.

Concrete is not merely a question of quantity; quality has also to be considered. A thinner floor of rich, homogeneous concrete will support a greater weight under tensile strain than a thicker floor of poorer and ill-mixed concrete under the same conditions.

It is claimed for some of the rotary mixers that they will deliver a finished batch

every minute, and at a saving of fifty cents per cubic yard.

The daily capacity of a mixer can be figured out by the contractor for himself, by checking upon the job, watch in hand, the number of batches turned out in any given time. Multiplying the number of batches in a day by the number of cubic feet in each batch will give the day's output in cubic feet. Divide by twenty-seven to reduce to cubic yards.

The demand for Portland cement concrete is steadily increasing, and is constantly introducing new features. There are reasons for this. Cement concrete is relatively cheap, easily made, and plastic so as to readily adapt itself to all kinds of forms. It calls for little skilled labor, which is a consideration in a trade in which wages are uniformly high, and

competition keen. The material is impermeable, and a splendid weatherer.

The live contractor should, if he has not already done so, turn his attention to cement concrete work in all its shapes. Its use is not confined to the cities and larger towns. It has invaded the country, in every direction. It is now extensively used upon farms for the building of barns, silos, hog pens, etc. Its greatest developments have still to be witnessed.

In selecting a concrete mixer the following points should be considered: size, portability, simplicity of parts, price, balance, charging and delivery, homogeneousness of product, visibility of mix, etc. The last is an important consideration, as it enables the man in charge to see how mix is progressing.—James Casey in "The National Builder."

WHEN PLANNING THE HOUSE PRACTICAL

How to make the house practical and usable as well as attractive and comfortable, but without cluttering it up with too much machinery and mechanical impedimenta of all kinds—that is one of the very finest points in house planning, and one which always gets far less attention than it deserves. It is all too easy to let the little things wait until all the big ones are provided for, with the almost certain result that the little ones are never attended to at all. Nobody ever neglects to devote many long, feverish evenings to the study of heaters, plumbing equipment, lighting fixtures and the like, when planning for the new house, unless he is letting the architect do all the planning and thinking, but how many go just one step further and devise ways and means to compel the furnace, the faucets and the fixtures to conform to the laws of human control after they are installed?

"I cannot afford all the little luxuries now; wait until I get the essentials, and then see if there is any money left for novelties and notions," is the conventional frame of mind of the home builder, and it is quite a natural frame of mind at that. But wait and see if it is practical. To find out for yourself whether it is practical or not, invest a dollar or so for postage and stationery, and spend two or three winter evenings writing for catalogues of as many household conveniences as you can learn about which come on the border line between absolute essentials but undoubtedly desirables.

For instance, start with the windows and shutters. There must be fasteners for both. Those are essentials. But does it not also appeal to your conception of comfort to have a little contrivance on the inside of the casing whereby you can open or close the shutters without opening the window or disturbing the screen? And as to the screen, how would you like a screen which rolls up and disposes of itself like a shade on a roller, in place of the old kind which slides rigidly up

and down and which is always either too tight or too loose in its tracks?

If your house is to have no shutters on some of its windows, but you still must have shades, are you going to have Venetian blinds or canvas awnings, and in either case are you going to get the cheapest contrivance you can find and save up for elaborate tapestries for the curtains inside? Don't do it. Consider your future comfort a little and plan for awnings or blinds which are easily adjusted, made of serviceable materials, and capable of admitting or shutting out the light either at top or bottom. It is a peculiar thing which only those who understand human nature can explain, that a fine drapery whose outer defense is a blind, awning or shutter, and whose inner defense is a housemaid, will withstand the rigors of a much longer campaign against the sun when the blind, awning or shutter is easily worked from the inside than when it is not.

While still going to the window for light on this subject of fitting the house in its beginning for later economy and efficiency, would it not be worth while to give a thought to the newest form of window ventilator which admits a reasonable modicum of fresh air to the room without depositing it all on the back of your neck? Everybody knows nowadays about the potency of fresh air without drafts as a tonic for ill and well alike, but far too many people still know too little about how to get it. The prime time to learn is when building a house.

Another device designed to accomplish a similar purpose is an attachment for radiators which keeps the air moist, thereby improving its qualities for breathing purposes, and keeping the furniture and wall paper from shriveling up and passing away prematurely.

For a small house, it may well be that an interior telephone system would come dangerously near the luxury line, but not for a large house, ever. In the first place, people

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of the class who build large houses are less oppressed by luxuries. They get used to them, some way, and seem more willing to pay for them. To them an interior telephone system, connecting service quarters and stables or garage with sleeping quarters or library is well worth, in a month's time, far more than the moderate cost, yet there are innumerable large houses going up to-day with no interior telephone systems, just because the owner never thought of it in time.

For the electrically wired house there are innumerable devices which should properly be considered when the house is in the planning, even though they are not built into the dwelling and thus contributors to its cost of construction. Still they can be made to play a most important part in the economies of the house's regular running.

Doubtless you could get along without one of those most humane little contrivances whose whole mission on earth is to let you stay in bed just a little while longer every morning in the winter—wherewith by pressing a button or pulling a string you can start the furnace on its day's work without raising your head from the pillow.—J. A. Rawson, Jr., in "House Beautiful."

BUILDING IN AFGHANISTAN.

Most of the ordinary houses of Afghanistan are constructed of sun baked mud bricks. The ordinary building method is to fix firmly in the ground some poles, on which a complete wooden skeleton of walls, doorways, ceilings and roof screens is formed. The wall interstices are then filled with sun baked mud bricks. Upon the poles placed as rafters long rush mats are spread, and over them about six inches of mud is smoothly laid, forming a roof, into which sundry bits of hollowed wood are fixed by way of rain spouts. The walls, both inside and out, are carefully plastered down, chopped wheat straw being added to the mud, just as hair is used in England.

A rudely carved window frame, holding five sliding shutters, in which are two or three panes of precious glass from India, is inserted in the upper story. Afghan doors are crudely made in two divisions, or flaps, which are fastened by being cautiously brought together and hooked to a staple in the door frame above by a piece of chain. Metal hinges are rare, but spikes of wood left jutting out of the doors at their inner corners, top and bottom, and stuck into holes and act as swivels. In walls of all dwelling rooms mud shelves are made. One runs around three sides of the room about seven feet from the floor, like a massive frieze, and beneath it is a series of arched recesses, forming many smaller shelves, about 30 inches long by 5 inches wide.

The heating arrangements of Afghanistan houses are rather primitive and hardly sufficient to provide comfortable warmth during the cold winters which prevail, especially at Kabul, 6700 feet above sea level, and other elevated districts, says Consul Henry D. Baker on special service in India. The chief method of heating is by charcoal braziers,

known as sandalis. An iron pot or brazier is placed in the middle of the room and filled with glowing charcoal. Among poor people simply a shallow hole is scraped in the earth of the floor, and in this the charcoal is put. A large wooden stool is placed over the charcoal and covered by a very large cotton wool quilt, or rezai. The people sit on the ground around the sandalis, pulling the quilt up to their chins. A big "postin" over the shoulders keeps the back warm, and the turban is always kept on the head. In the winter little work is done, and people sit by the sandalis most of the day.

All the larger houses have rooms for the Afghan bath, somewhat like a Turkish bath, except that the heat is not so great. The walls are cemented and the floor either cemented or paved with an inferior marble that is plentiful near Kabul. The cement is made of equal parts of wood ashes and lime moistened and beaten together for some days. In a recess in one wall is a cistern or tank of stone or cement, with a fireplace beneath it, which is fed from the stokehole outside the bathroom. Public bathrooms are quite an institution in Afghanistan. They are rented by a bathman or barber, who makes what he can out of them. Some of the bathhouses belong to the Amir. It is probable that with the completion of the hydroelectric enterprise there will be a demand for the equipment of the better class of residences at Kabul with electrical stoves and other heating appliances.

TRADE NEWS AND GOSSIP.

**Eduard Cunningham, civil engineer and contractor, 50 North Twenty-third street, Philadelphia, Pa., desires catalogues and price lists covering all building materials and equipment.

**American Radiator Co., Chicago, Ill., announces the election as vice-presidents of Louis Bruch, manager of the company's advertising, and Archer A. Landon, manager of the company's Buffalo plant. The appointments are effective February 1. Mr. Bruch has been identified with the heating industry since 1889, when he became connected with the Pierce Steam Heating Co. He will remain as advertising manager of the company.

**The firm of Ford & Dillon, architects and engineers, has recently been organized. Offices have been opened in the Coast Estate Building, at Olean, N. Y.

**New York Central Iron Works Co., Hagerstown, Md., recently incorporated with a capital stock of \$225,000, to take over the business of the New York Central Iron Works, Geneva, N. Y., manufacturer of the Dunning Boiler, has elected the following officers, President, M. P. Moller, owner of the Moller Organ Works and President of the Crawford Automobile Co.; Vice-President, L. D. Perry; Secretary, C. D. Wagaman; Treasurer, C. E. Whipple; Executive Committee, C. E. Whipple, M. P. Moller, C. D. Wagaman and L. D. Perry. The Company will begin operations with a payroll of 49 men.

**National Radiator Co., Johnstown, Pa., distributed a bonus of \$1,962.75 to 53 of its employees as a result of the company's business for the year ending December 20. The highest sum received by any one man was \$60.48 and the lowest, \$16.65.

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Nor yet is "a jar" (see Joe Miller),
But when it's let down is a bed, nothing more—
Unless it's a mantrap and killer!

That innocent looking and tufted divan,
Go nigh it and heaven protect you!
If you touch the right spring in its intricate plan,

Through the ceiling the thing may project you!

'Tis a bed! And a bed is yon seeming book-case,

And also that counterfeit closet—
There is scarcely a thing in the whole blooming place

That has not a bed on deposit.

With horror I view every night in the flat:
"The Victim, Asleep, Presses Button"
(Thus the headline may read), "Is Trapped Like a Rat!"

And so should my sleep become mutton!
I shall sleep on the floor and of freak things beware

So long as a flat I must keep in.
There are beds here and there—yes, beds everywhere,

But never a bed fit to sleep in!
—"New York Globe."

* * *

Ho! for a dachshund, when the winds of winter loudly roar,

He stretches out, a yard or so, across the kitchen door.

He's better than a weather strip, though his upkeep bill is more.

—"New York Post."

* * *

The First Lady: "My husband wired me from Paris on my birthday asking whether he should buy me a Rembrandt or a Titian. Now, which would you have?"

The Second: "Well, as far as that goes, any of those French cars are pretty good."—"Yonkers Statesman."

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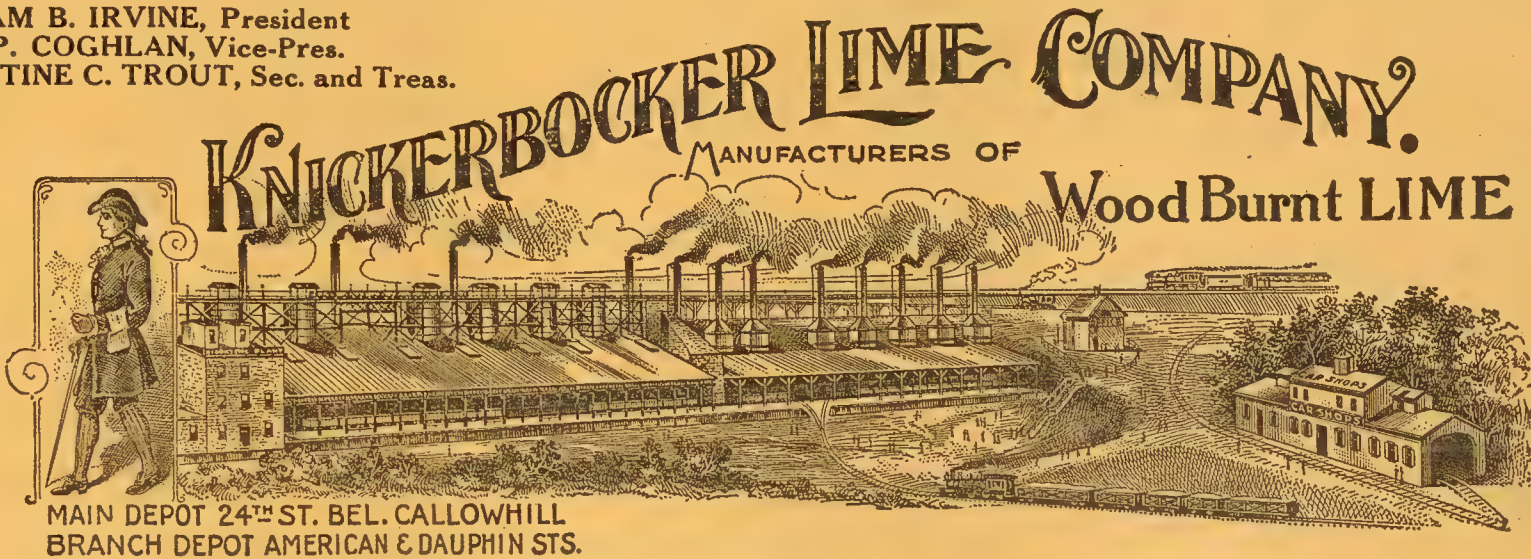
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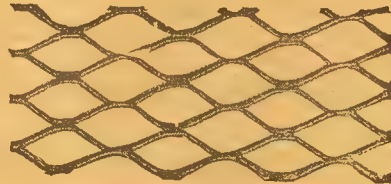
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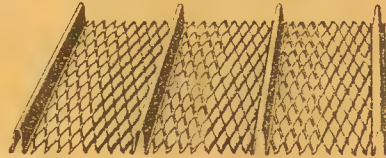


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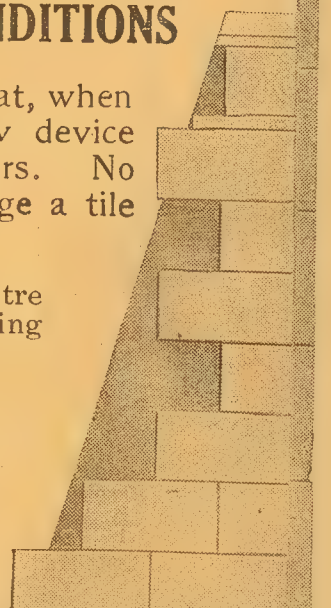
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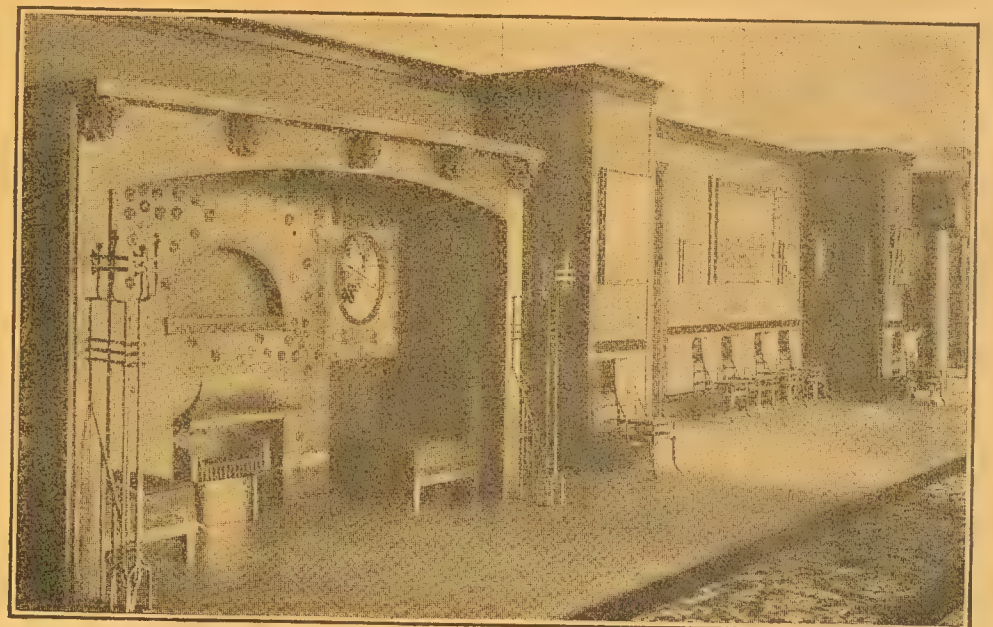
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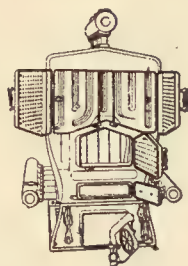
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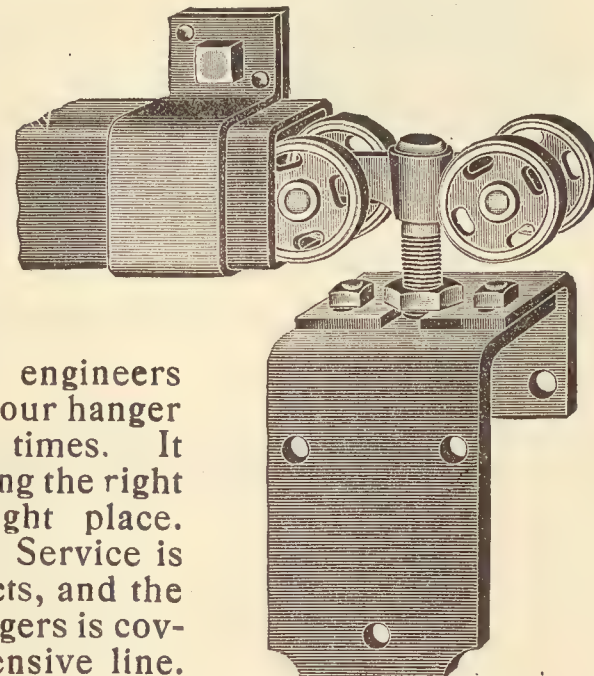
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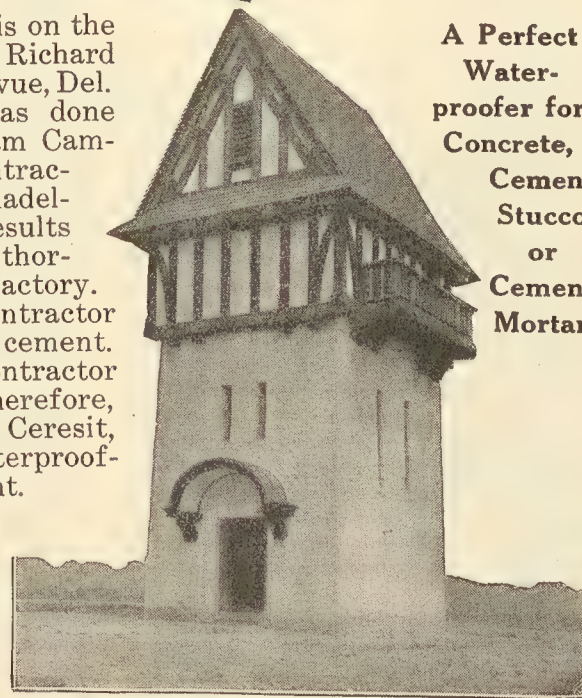
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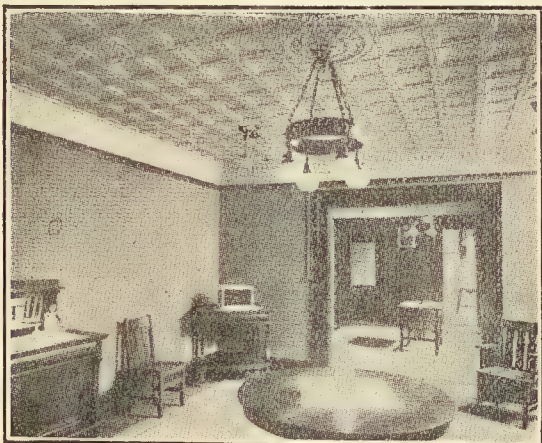
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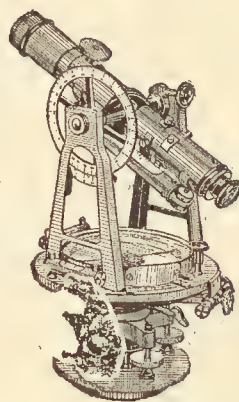
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Vol. XXIX., No. 10.

PHILADELPHIA, WEDNESDAY, MARCH 11, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church, Westmoreland and G streets. Architects, Henon & Boyle, 10 South Thirteenth street. Owner, Church of the Ascension, on premises. Stone, 1 story, 80x160 feet, slate roof, electric lighting, steam heating. Architect taking bids due March 12th. The following are figuring: John McShain, 631 North Seventeenth street; Melody & Keating, Bailey Building; John McKenna & Sons, 1023 Race street; M. L. Conneen & Co., 315 South Twentieth street; Cunningham & Bartholomew, 4326 Paul street, Frankford, Philadelphia; D. W. O'Dea, 5219 North Fifth street.

Residence and Store (alt. and add) (6), 812 to 822 Columbia avenue. Architect, B. J. Medoff, 524 Walnut street. Owner, Morris L. Miller, Commonwealth Building. Brick, 4 stories, new fronts, hot-water heating, electric lighting. Owner is taking bids due March 15th. In addition to those previously reported, Thomas C. Trafford, 1613 Sansom street, is figuring.

Residences (2), Seventh street and Moyamensing avenue. Architect, Jacob Naschold, 5148 Sansom street. Owner, Joseph Lucatzky, 1926 South Seventh street. Brick, 3 stories, electric lighting, hot-air heating. Architect taking approximate bids. Burgard & Weiss, Drexel Building, are figuring (only bidders).

Picture Theatre, Kensington and Lehigh avenues. Architect, Herman Miller, Crozer Building. Owner, John Knoell, 3154 North Broad street. Brick and terra cotta, 1 story, 68x105 feet, slag roof, steam heating, electric lighting.

Office Building, Overington street, west of Frankford avenue, \$6,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Joseph F. McCartney, Forty-second and Aspen streets. Brick, 2 stories, 18x70 feet, slag roof, steam heating, electric lighting. Plans in progress.

Church (alt. and add.), Oak Lane, Philadelphia. Architects, Charles Bolton & Sons, Witherspoon Building. Owner, Oak Lane Presbyterian Church, Oak Lane. Stone, 1 story, slate roof, steam heating, electric lighting. Architect is taking bids due March

12th. The following are figuring: W. John Stevens, Wyncote, Pa.; F. L. Hoover & Sons, 1023 Cherry street; Burd P. Evans Company, Thirteenth and Wallace streets; Thomas C. Trafford, 1613 Sansom street; Harrison C. Rea Co., 1001 Wood street; Frank R. Hill, Oak Lane, Philadelphia.

Children's Hospital, Eighteenth and Fitzwater streets, Philadelphia. \$300,000. Architects, Stewardson & Page, 420 Walnut street. Owners, Children's Hospital of Philadelphia, 207 South Twenty-second street. Brick, steel and concrete, 4 stories and basement, slate and slag roof, steam heating, electric lighting, water-proofing, safety treads. Architects taking bids due March 18th. The following are figuring: Charles Gilpin, Harrison Building; Stacy Reeves & Sons, 2011 Market street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1210 Sansom street; Irwin & Leighton, 126 North Twelfth street; Jacob Myers & Sons, Witherspoon Building; Roydhouse-Arey Co., Fidelity Building, and Cramp & Co., Denckla Building; Pomeroy Const. Co., 1609 Ranstead street.

Home (add.), Holmesburg, Philadelphia. Architect, Romulo L. Vasquez, 7941 Frankford avenue. Owner, Edwin Forest Home. Brick and concrete, slag roof, steam heating, electric lighting, metal lath. Consists of additional story and fire tower. Architect taking bids due March 11th. Alexander Chambley, 243 South Tenth street, is figuring.

Store and Hall, 5935 and 37 Haverford avenue. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, Ed. L. Mintzer, 5252 Locust street. Brick, 2 stories, 40x80 feet, slag roof, steam heating, electric lighting. Owner will take sub-bids.

Y. W. C. A., Allegheny avenue and Hancock street. Architects, Hewitt & Granger, Bullitt Building. Owner, Y. W. C. A., Eighteenth and Arch streets. Brick and terra cotta, fireproof, 114x130 feet, 6 stories and 3 wings, slag roof (heating and lighting, reserved), elevators, damp-proofing, water-proofing, metal frames and sash, metal trimmings and doors, kalamein work, hollow tile and gypsum block. Architect taking revised bids due March 11th. Cramp & Co., Denckla

Building; Thomas Little & Sons, 1723 Moravian street; Charles Gilpin, Harrison Building; Charles McCaul Co., Tenth and Sansom streets, are figuring.

Apartment House Fortieth and Walnut streets. Architect, A. Lynn Walker, Fortieth and Walnut streets. Owner, Harry C. Hollinger, 600 South Forty-eighth street. Brick, fireproof, 5 stories, elevators. Plans in progress.

Picture Theatre, Fifty-second street and Greenway avenue. \$15,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, John J. Connor, Fifty-second and Regent streets. Brick, terra cotta and concrete, fireproof, 1 story, 43x140 feet, slag roof, steam heating, electric lighting. Burgard & Weiss, Drexel Building, are figuring (only bidder).

Residence, St. Martin's, Philadelphia. Architects, Harris & Richards, Drexel Building. Owner, William Forsyth, 7020 Chew street. Stone, 2½ stories, slate roof, hot-water heating, electric lighting, hardwood floors. Architects taking bids due March 19th. The following are figuring: Henry L. Brown, 1714 Sansom street; H. H. Burrell, 1204 Chancellor street; Pringle Borthwick, 8018 Germantown avenue; F. Elvidge & Sons, 5522 Germantown avenue; W. J. Gruhler, 219 High street; Stokes Bros., 6723 Musgrave street; F. B. Davis, 35 South Seventeenth street; W. John Stevens, Wyncote, Pa.; Charles C. Pace, Merion, Pa.; Gray Bros., Rosemont, Pa.; George & Borst, 277 South Eleventh street; McLean & Baldwin, 6101 Walnut street; H. E. Baton, Twelfth and Sansom streets; George L. Croll, Rosemont, Pa.

Flats (30), Walnut Lane, Germantown, Philadelphia. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, E. C. Van Hoffenstein, 1001 Chestnut street. Brick, 2 stories, 16x65 feet, slag roof, steam heating, electric lighting. Plans in progress. Bids in two weeks.

Public Comfort Station, Ontario Park, Philadelphia. Architect, Edward Crane, City Hall. Owner, Bureau of City Property, City Hall. Brick and concrete, 1 story, 20x40 feet, electric lighting, safety treads,

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enamel brick, water-proofing. Owners taking taking bids due March 18th. The following are figuring: J. W. Emery, 1524 Sansom street; E. H. Sturts, 2614 Ridge avenue; P. J. Hurley, 1233 Cherry street; Mitchell Bros., 2125 Race street; F. Roe Searing, Perry Building; David Peoples, Fidelity Building.

Residence, Allen Lane, Germantown. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and stucco, 2½ stories, 50x126 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Architect taking bids due March 12th. The following are figuring: Henry L. Brown, 1714 Sansom street; Pringle Borthwick, 8018 Germantown avenue; F. Elvidge & Sons, 5522 Germantown avenue; Pomeroy Construction Co., 1609 Ransstead street; J. E. Walt, 204 East Willow Grove avenue; W. J. Gruhler, 219 High street.

Apartment House (alt.), Park and Mont-

gomery avenues. Architect M. H. Dickinson, 1524 Chestnut. Owner, T. W. Rogers, 1001 Chestnut street. Brick and stone, 4 stories, slate and slag roof, electric lighting, steam heating, hardwood floors, 20x100 feet. Owner has received revised bids.

Residence (alt. and add.), Germantown, Philadelphia. Owner, J. C. Winston, 1006 Arch street. Architect, Walter F. Price, 714 Walnut street. Stone, 1 and 2 stories, slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due March 13th. W. J. Gruhler Co., 219 High street; F. A. Havens Co., 845 North Nineteenth street; F. L. Hoover & Sons, 1023 Cherry street; W. C. Wright, 22 Harvey street, are figuring.

Dyeing Plant, Second and Clearfield streets. Architect, W. E. S. Dyer, Land Title Building. Owners, Joseph R. Foster & Sons, on premises. Brick and concrete, 2 and 3 stories. Plans in progress. Architect will take bids in about two weeks.

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Hotel (alt. and add.), Eighteenth street and Ridge avenue. Architect, private plans. Owners, Ridge Avenue Farmers' Market Hotel, care of H. B. Hunsicker, on premises. Brick, 4 stories, slag roof, electric lighting, steam heat and interior alteration and addition. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street.

Factory (add.), Twentieth street and Indiana avenue. Architect, private plans. Owner, Lubin Manufacturing Company, on premises. Brick, 2 stories, 22x36 feet, slag roof, electric lighting. Contract awarded to F. A. Havens, 845 North Nineteenth street, who is taking sub-bids.

Store and Manufacturing Building (alt. and add.), 223 North Thirteenth street. Architect, C. E. Oelschlager, Harrison Build-

ing. Owner, Benjamin Alexander, Hale Building. Brick, 5 stories, slag roof, consists of interior alteration and addition. Contract awarded to Frank Lucci, 1345 Catherine street.

Tower, Thirty-fifth street and Gray's Ferry road. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Harrison Bros. & Co., on premises. Concrete and steel, metal window frames. Contract awarded to Barclay White Co., Perry Building.

Church, 214 Coulter street, Germantown, Philadelphia. \$45,000. Architect, C. Henry Wilson, 1130 Lombard street. Owner, Emon Baptist Church, care of Rev. J. C. Brown. 218 West Duval street, Germantown, Philadelphia. Stone, 1 story, 40x70 feet, steam heat, tin roof, electric lighting. Contract

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Moving Picture Theatre, Fifty-ninth and Arch streets. \$100,000. Architects, Hoffman & Co., Thirteenth and Walnut streets. Owners, Cross-Keys Amusement Co., care of J. McQuirk, Parkway Building. Brick and terra cotta, fire-proofing, 1 story, 110x155 feet, slag roof, electric lighting, steam heating. Contract awarded to J. A. Bader & Co., duPont Building, Wilmington, Del.

Pier, Catharine street, Delaware River. \$350,000. Engineer, Department of Wharves and Docks, Bourse Building. Owner, City of Philadelphia. Concrete and steel, slag roof, electric lighting. Contract awarded to

Snare & Triest Co., Seventy-ninth street and Lexington avenue, New York City.

Garage, 226 West Willow Grove avenue. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, J. E. Casey, on premises. Stone, 1 story, 16x23 feet, slate roof, electric lighting. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Picture Theatre, Fifty-second and Locust streets, \$25,000. Architects, Stuckert & Sloan, Crozer Building. Owners, Felt Amusement Company, Fifty-second and Wyalusing avenue. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting. Contract awarded to Stacy Reeves & Sons, 2011 Market street.

PENNSYLVANIA

Construction News

Residence, Jenkintown, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, A. R. Nicholson, Jenkintown, Pa. Hollow tile and plaster, 2½ stories, 40x24 feet, wing 18x41 feet, shingle roof, warm-air heating, electric lighting, red oak floors. Architects taking bids due March 16th. The following are figuring: Specht & Sperry, Heed Building; F. B. Davis, 35 South Seventeenth street; W. John Stevens, Wyncote, Pa.; E. D. Lever, Abington, Pa.

Court House (add.), Allentown, Pa. Architect, R. S. Rathburn, Allentown, Pa. Owner, Lehigh County Court House, Allentown, Pa. Stone, brick and fireproof, 3 stories and basement, 75x100 feet, slag roof (steam heating and electric lighting, separate bids), oak floors, metal frames and sash, water-proofing, enameled brick, kalamein doors, elevators. Owners taking bids due March 19th. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring, in addition to those previously reported.

Residence, Llanerch, Pa. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, J. M. McCready, Keith's Building, Philadelphia. Stone and frame, 2½ stories, slate roof, hot-water heating, electric lighting. Plans in progress.

Garage, Haverford, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Horace H. Lee, Stock Exchange Building, Philadelphia. Stone, 2 stories, 25x39 feet, shingle roof (heating and electric light, reserved). Architect taking bids due March 9th. The following are figuring: George & Borst, 277 South Eleventh street; John E. Kearney, 327 North Sixth street; A. L. Fretz & Son, 1222 Chancellor

street, all of Philadelphia, and W. D. Smedley, Narberth, Pa.; Mowrer Bros., Merion, Pa.; F. H. Mahan, Ardmore, Pa.

Church, Lewistown, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, Sacred Heart R. C. Church, Lewistown, Pa. Stone, 1 story, 45x90 feet, slate roof, steam heating, electric lighting. Architect taking bids due March 18th. The following are figuring: George C. Tate, Yeagers-town, Pa.; Stapf & Benfer, Harrisburg, Pa., and W. D. Steinbach's Sons, and E. E. Ulsh, Lewistown, Pa. Plans on file at Architect's office for sub-contractors.

High School, Lansdale, Pa. \$30,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Board of Education, Lansdale, Pa. Stone, 2 stories, 60x125 feet, slag roof, electric lighting, heating not decided. Plans in progress. Owners will take bids in about three weeks.

Church, Weatherly, Pa. \$25,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Salem Reformed Church, Weatherly, Pa. Brick, stone trimmings, 1 story, 60x120 feet, slag roof, steam heating, electric lighting. Plans in progress.

Church, Lansdale, Pa., \$30,000. Architect, E. W. Thames, Heed Building, Philadelphia. Owner, First Baptist Church, Lansdale, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

School, Collingdale, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, School Board of Borough of Collingdale, Delaware County. Brick, 1 story, 51x91 feet, slag roof, hot-air heating. Architect taking bids due March 16th. The following are figuring: P. J. Hurley, 1233

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Church, Bryn Athyn, Pa. Architects, Cram, Goodhue & Ferguson, 2 W. 47th street, New York City. Owner, Church of New Jerusalem of Bryn Athyn, Pa. Stone, 1 story, 100x150 feet, slate and copper roof, electric lighting, steam heating, water-proofing, fire-proofing. Architects taking bids, due March 17th.

School (add.), Phillipsburg, Pa. Architect, Julian Millard, Altoona, Pa. Owner, Board of Education, Phillipsburg, Pa. Brick, 2 stories, 40x140 feet, slag roof (heating and lighting, reserved). Owners taking bids due March 14th. H. E. Baton, Twelfth and Sansom streets, is figuring.

High School (Add.), Perkasio, Pa. Architect, A. O. Martin, Doylestown, Pa. Owner, School Board, Perkasio, Pa. Brick and stone, 2 stories, 51x100 feet, slate roof, damp-

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proofing, hollow tile, fire-proofing, safety treads. Owners taking bids due March 14th. In addition to those previously reported, E. E. Hollenback, Fifteenth and Race streets, Philadelphia, is figuring.

Club House (Alt.), East King street, Lancaster, Pa., \$15,000. Architect, Clifton Evans, 20 South Lime street, Lancaster, Pa. Owner, Order of Moose, Lancaster, Pa. Brick, 3 stories, 32x180 feet, slag roof, steam heating, combination lighting, wood and cement floors, bowling alleys. Architect taking bids.

Residence, Bellevue Park, Harrisburg, Pa. \$8,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, J. Heathcote, Harrisburg, Pa. Stone, hollow tile and stucco, 2 stories, 44x48 feet, slate roof, steam heating, combination lighting, hardwood floors. Plans in progress.

Church, Foster and Ash streets, Harrisburg, Pa. \$23,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, Wesley Union Church, Harrisburg, Pa. Brick, brownstone trimmings, 2 stories, 44x107 feet, slate roof, steam heating, electric lighting. Architect taking bids. The following are figuring: C. W. Strayer, W. H. Schue and James Pomroining, all of Harrisburg, Pa.

Residence, Red Lion, Pa. \$10,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owner, J. B. Sechrist, York, Pa. Brick, 3½ stories, 38x47 feet, slate roof, steam or vapor heating, combination lighting, hardwood floors. Plans in progress.

School, Madison avenue and West street, York, Pa. \$35,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, Board of Education, York, Pa. Brick and terra cotta, 2 stories, 75x100 feet, slate roof, electric lighting, hardwood finish, heating not decided. Plans in progress.

Hotel (alt. and add.), George street, York, Pa. \$20,000. Architect, R. Dempwolf, Centre Square, York, Pa. Owner, E. C. Brooks, York, Pa. Brick, 5 stories, 33x200 feet, composition roof. Plans in progress.

Store, North George street, York, Pa. \$15,000. Architect, R. Dempwolf, Centre Square, York, Pa. Owner, M. N. Haines, York, Pa. Brick and stucco, 3 stories, 30x140 feet. Plans in progress.

Church (alt. (refaced)), South George street, York, Pa. \$12,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, St. Mary's R. C. Church, York, Pa. Granite and terra cotta, 2 stories, 66x20 feet, slate roof. Plans in progress. Bids will be taken in one month.

School and Dancing Hall, Rouse avenue, York, Pa. \$8,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, St. Joseph's R. C. Church, York, Pa. Brick, school, 2 stories; dance hall, 1 story, 40x120 feet, slate and composition roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Store (alt.), Carlisle, Pa. \$5,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, S. Kronenberg's Sons, Carlisle, Pa. Brick, 1 story, 30x100 feet, slag roof, electric lighting. Owner ready for bids in two weeks.

Residence, Christiana, Pa. \$5,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, W. S. Beyer, Lancaster, Pa. Brick, 2 stories, 30x32 feet, slate roof, hot-water heating. Owner taking bids.

Houses (2), Ross street, Lancaster, Pa.

Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Lancaster Real Estate Co., Lancaster, Pa. Brick, 2 stories, 16x50 feet each, slag roof, hot-air heating, combination lighting. Plans in progress.

Residence, South Duke street, Lancaster, Pa. \$4,500. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, L. W. Keplinger, Lancaster, Pa. Brick, Bradford brick front, 3 stories, 14x22 feet, tin roof, hot-water heating, combination lighting, tile and hardwood floors. Owner taking bids.

Houses (2), Frieberg street, Lancaster, Pa. \$2,500 each. Architect, Clifton Evans, 28 South Lime street, Lancaster, Pa. Owner, name withheld. Brick, 2 stories, 19x39 feet, tin roof, hot-air heating, gas light. Plans in progress.

Moving Picture Theatre, Market street, Marietta, Pa., \$15,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, City Amusement Co., Lancaster, Pa. Brick and steel, 1 story, stage, 20x42 feet; auditorium, 130x42 feet; entrance, 65x15 feet; slag roof, steam heating, electric lighting. Plans in progress. Will take bids April 1st.

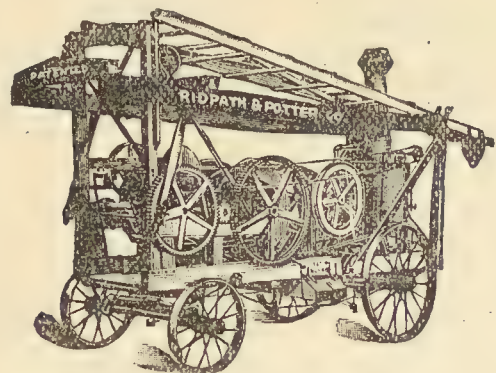
Apartment House, East King and Lime streets, Lancaster, Pa. \$50,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, S. R. Slaymaker, Lancaster, Pa. Brick and terra cotta, 3 stories, 155x50 feet, slag roof, vapor heating, electric lighting, composition and hardwood floors, Keystone metal weather strip, safety treads, vacuum cleaners, marble entrance, iron stairs. Plans in progress. Architect will take bids April 1st.

Store (alt.), North Queen street, Lancaster, Pa. \$7,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Paul Heine, Lancaster, Pa. Brick and glass front, 3 stories, electric lighting, tile floors, new clothing fixtures. Plans in progress.

Court House (add.), Allentown, Pa. Architect, R. S. Rathburn, Allentown, Pa. Owner, Lehigh County Commissioners, Allentown, Pa. Stone and brick, fireproof, 3 stories and basement, 75x100 feet, slag roof, steam heating, electric lighting, oak floors, enamel brick, water-proofing, damp-proofing (steam heating, electric lighting, separate bids), metal frames and sash, kalamein doors, elevators. Owners taking bids due March 19th. J. W. Emery, 1524 Sansom street, Philadelphia, is figuring, in addition to those previously reported.

Bank Building, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owners, Citizens' National Bank, Pottstown, Pa. Stone, 1 story, steam heating, electric lighting. Plans in progress.

School, Seventeenth and Catherine streets, Harrisburg, Pa. \$90,000. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Harrisburg, Pa. Brick and stone trimmings, composition roofing, steam heating, electric lighting, tile and concrete floors. Owners taking bids due March 20th. The following are figuring: Monaghan & Losse, 21 4South Twelfth street! F. Roe Searing, Perry Building; F. A. Havens & Co., 845 North Nineteenth street; Herman Voigt, 1251 North Twenty-eighth street, all of Philadelphia; John Myers, W. S. Roebuck, C. H. Miller, A. Wildman, and



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Double House, 1825 Market street, Harrisburg, Pa. \$8,000. Architect, T. H. Hamilton, Harrisburg, Pa. Owner, C. M. Beard, 1823 Market street, Harrisburg, Pa. Brick, 3 stories, 56x32 feet, tin roof. Owner taking bids.

Residence, Lancaster, Pa. \$5,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, H. B. Havestick, Eden, Pa. Brick, 2 stories, 32x48 feet, slate roof, hot-water heating, electric lighting. Plans in progress.

Shoe Factory (add.), Akron, Pa. \$7,500. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Miller Hess & Co., Lancaster, Pa. Brick and concrete, 2½ stories, 50x60 feet, slag roof, steam heating. Owners taking bids.

School, Milton, Pa., \$65,000. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Education, Milton, Pa. Brick and stone, 2 stories, 150x60 feet, composition roof, steam heating, electric lighting, tile floors. Plans in progress.

Stores, Flats and Warehouse, Pottstown, Pa. Architect, E. F. Bertolett, 1614 Cherry street, Philadelphia. Owner, H. D. Saylor, Pottstown, Pa. Brick and terra cotta, 3 stories, asbestos roof, steam heating, electric lighting, hardwood floors. Owner is taking bids.

Hospital, Carlisle, Pa. Architect, E. F. Bertolett, 1614 Cherry street, Philadelphia. Owners, Carlisle Hospital, Carlisle, Pa. Stone, 3 stories, 75x125 feet, slate roof, steam heating, electric lighting. Owners taking bids, due April 13th. The following are figuring: A. N. Brindle and James Porter, of Carlisle, Pa.

School, Dillsburg, Pa. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owners, Board of Education, Dillsburg, Pa. Brick, 2 stories, 48x84 feet, asbestos roof, steam heating, electric lighting, waterproofing. Owners taking bids, due March 13th. F. Roe Searing, Perry Building, Philadelphia; W. J. Elliott, Coatesville, Pa.; C. W. Strayer, Lemoyne, Pa., and H. J. Wenzelberger, Phillipsburg, N. J., are figuring.

Residence and Garage, Ardmore, Pa. Architects, Thomas & Churchman, 130 South Fifteenth street, Philadelphia. Owner, Charles

Carver, Jr., Stephen Girard Building, Philadelphia. Stone and frame, 2½ stories. Plans in progress. Details not decided.

Pennsylvania

Contracts Awarded

Y. M. C. A., Coatesville, Pa. Architects, Shattuck & Hussey, 19 South LaSalle street, Chicago, Ill. Owners, Y. M. C. A., Coatesville, Pa. Brick and stone, 4 stories, 95x144 feet, slate and slag roof, electric light, steam heat, marble interior, water-proofing, expanded metal. Contract awarded to C. H. Ash, Coatesville, Pa.

Residence, Glenside, Pa. Architect, private plans. Owner, Franklin S. Moorehouse, care of Builder. Stone, 2½ stories, 26x40 feet, slate roof, electric lighting (heating, reserved). Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Sunday School Building, Bloomsburg, Pa. \$30,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, First Presbyterian Church, Bloomsburg, Pa. Stone, 2 stories, 50x85 feet and 35x40 feet, slate roof, steam heating, electric lighting. Contract awarded to Aaron C. Jury, Bloomsburg, Pa.

Residence, Cynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, R. F. Tull, Cynwyd, Pa. Brick, 2½ stories, 29x57 feet, green slate roof (heat and light, reserved), Rufftex brick, red oak floors. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Tenant Houses (2), Roelofs, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Joseph Heacock Co., Wyncote, Pa. Frame and plaster, 2½ stories, shingle roof, warm-air heating. Contract awarded to Angelo Di Renzo, Bristol, Pa.

Residence, Latham Park, Pa. Architect, E. W. Thames, Heed Building, Philadelphia, Pa. Owner, William L. Elkins' Estate, Land Title Building, Stone and plaster, 2½ stories, 42x45 feet, slate roof, electric light, hot-water heat, hardwood floors. Contract awarded to John Morrow, Oak Lane, Pa.

Store and Apartments, East King street, Lancaster, Pa. \$16,000. Architect, H. M.

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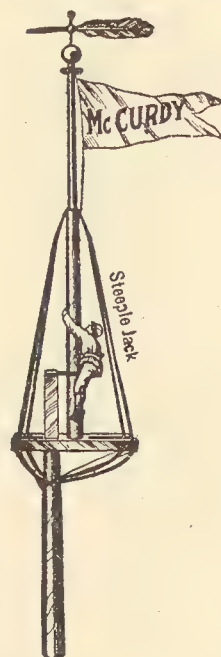
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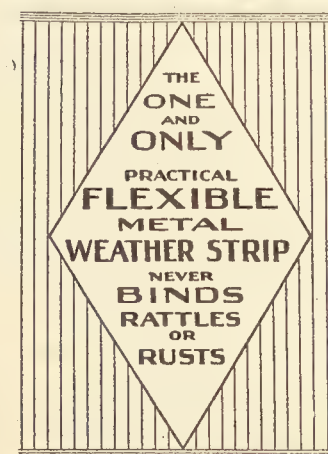
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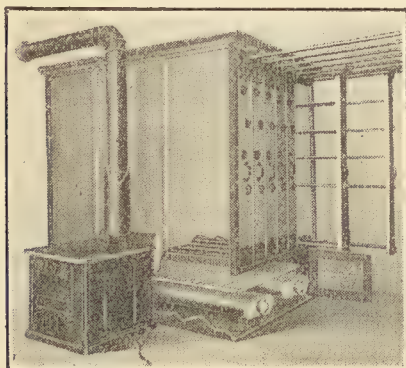
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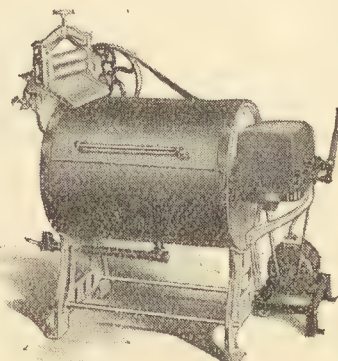
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Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, J. A. Goll, 607 North Duke street, Lancaster, Pa. Brick, 4 stories, 34x100 feet, slag roof, steam heating, combination lighting. Contract awarded to Herman Wohlsen, Lancaster, Pa.

Residence, Millersville, Pa. \$10,000. Architect, Melvern R. Evans, Lancaster, Pa. Owner, H. C. Bonham, Millersville, Pa. Brick, 2½ stories, 34x30 feet and 16x25 feet, slate roof, hot-water heating, hardwood floors, combination floors, Keystone metal weather strip. Contract awarded to J. Brenner, Highville, Pa.

Store (alt.), 114 North Queen street, Lancaster, Pa. \$5,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, B. F. Barr, Lancaster, Pa. Wood and cement, 3 stories, 34x65 feet, glass front, metal skylights, galvanized cornice. Contract awarded to Samuel H. Bally, Lancaster, Pa.

Factory (add.), Lancaster, Pa. \$4,500.

Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Fidelity Electric Co., 331 March street, Lancaster, Pa. Brick, 1 story, 50x60 feet, rubberoid roof, steam heating, electric lighting. Contract awarded to Peter Wohlsen, Lancaster, Pa.

Residence, Jenkintown, Pa. Architect, Mantle Fielding, 518 Walnut street, Philadelphia; Owner, Harold S. Eckels, 1922 Arch street, Philadelphia. Stone, 2½ stories, 40x60 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to Frank R. Hill, 6700 North Sixth street, Philadelphia, who is taking sub-bids on all lines.

Administration Building, Frederick, Md. \$75,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owner, Hood College, Frederick, Md. Brick, stone and concrete, 3½ stories, 155x44 feet, peach bottom slate roof, steam heating, electric lighting, parquetry, tile and hardwood floors. Contract awarded to Lloyd C. Culler, Frederick, Md.

NEW JERSEY Construction News

School Building, Beverly, N. J. \$20,000. Architect, Henry Armit Brown, Beverly, N. J. Owner, School Board, Beverly, N. J. Brick, 2 stories, slate roof, electric lighting. Plans in progress.

Residence (add.), Princeton, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Judge E. Ambler Armstrong, Princeton, N. J. Stone, 2 stories, consists of new library, slate roof, electric lighting, hardwood floors, hot-water heating, extension. Architect taking bids due March 14th. The following are figuring: Daniel Dugan, Trenton, N. J., and Matthews Construction Co., E. M. Updike, John P. Gill, Samuel H. Stillwell, all of Princeton, N. J.

Inn, Stone Harbor, N. J. Architect, H. L. Reinhold, 1309 Walnut street, Philadelphia. Owner, L. E. Miller, care of South Jersey Realty Co., Real Estate Trust Building, Philadelphia. Frame, 3 stories, shingle roof, hot-water heating, electric lighting. Owners are taking bids.

Twin Residence, Beverly, N. J. \$4,000. Architect, H. F. Stees, Beverly, N. J. Owner, George W. Addis, Beverly, N. J. Hollow tile and plaster, 2½ stories, 30x45 feet, shingle roof, hot-water heating. Architect taking bids due March 14th. The following are figuring: Jos. E. Hammel, Joseph Kloster and G. D. Logan, all of Beverly, N. J.; Hugh B. Miller, Edgewater Park, N. J.

Residence, Beverly, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, George T. Seckel, Beverly, N. J. Hollow tile and plaster, 2½ stories, shingle roof, hot-air heating, electric lighting. Architect taking bids due March 11th. The following are figuring: Joseph E. Hammel, Joseph Kloster and G. D. Logan, of Beverly, N. J., and George W. Shaner, Palmyra, N. J.

Bulkhead, Water and Walnut streets, Camden, N. J. Architect and Engineer, L. E. Farnham, Camden, N. J. Owner, City of Camden. Wood, 495x575 feet. Owner taking bids, due March 17th. Ed. F. Fonder, Land Title Building, Philadelphia, is figuring.

Residences (2), Atglen Heights, N. J. Architects, Borzner & Wood, 721 Walnut street. Owner, J. N. Wilkinson, Bourse Building. Frame, 2½ stories, 22x24 feet, shingle roof. Plans in progress.

Power House, Cape May Court House, N. J. Architects and Engineers, Lewis Rath & Co., Denckla Building, Philadelphia. Owner, Vulcan Electric Light & Power Co., care of

Mr. Risley, Real Estate Trust Building, Philadelphia. Brick and galvanized iron, 1 story, 50x80 feet, iron roof. Owner will take sub-bids.

Residence, Trenton, N. J. \$15,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, John S. Dunham, 164 West State street, Trenton, N. J. Brick, 2½ stories, 75x32 feet, slate roof, vacuum heating, electric lighting, oak floors. Plans about completed. Architects will be ready for bids March 15th.

Residences and Store (5), Elmer and Hudson streets, Trenton, N. J. Architect, William B. Thines, 326 State street, Trenton, N. J. Owner, Giovanni Muccioli, Trenton, N. J. Brick, 2½ stories, 50x110 feet, slate, slag and tin roofs, gas and electric lighting. Plans in progress.

Residences (25), Camden, N. J. \$3,000 each. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Isaac Buld, Camden, N. J. Brick, 2 stories, 16x38 feet each, slag roof, hot-air heating. Plans about completed. Owner will soon take sub-bids.

Hospital (alt.), Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Board of Freeholders, care of F. W. George, Court House, Camden, N. J. Consists of interior alterations. Owners have received bids.

School Building, Medford, N. J., \$45,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, care of E. J. Garwood, Secretary, Medford, N. J. Brick, 2½ stories, slate roof. Architects selected. Plans about to be started.

Nurses' Home, Atlantic City, N. J. \$20,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owner, Atlantic City Hospital. Brick, 3 stories, slag roof, steam heating, electric lighting. Plans about completed. Architects will take bids in 10 days.

Residence, Atlantic City, N. J. \$12,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, J. H. Carstairs, 254 South Third street, Philadelphia. Frame, 3 stories, 36x36 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architect will take bids in about one week.

Store and Apartment (alt. and add.), Atlantic City, N. J. \$20,000. Architect, Seward G. Dobbins, City Square Theatre Build-

ing, Atlantic City, N. J. Owner, I Aaron, Connecticut avenue, Atlantic City, N. J. Brick, 3 stories, 75x100 feet, slag roof, hot-water heating, electric lighting. Plans in progress.

Apartment House, Atlantic City, N. J. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, name withheld. Brick and concrete, 4 stories, 50x76 feet, slag roof, hot-water heating, electric lighting. Architect taking bids due March 14th.

Storehouse and Platform, Camden, N. J. Engineer, William Hunter, Reading Terminal, Philadelphia. Owner, Atlantic City Railroad Company, Camden, N. J. Brick, 1 story, 20x48 feet, concrete platform, 10x56 feet, slag roof, water-proofing. Owners taking bids due March 11th. The following are figuring: Spech & Sperry, Heed Building; Charles Gilpin, Harrison Building; Brown-King Construction Co., Harrison Building; W. W. Lindsay Co., Harrison Building; Burd P. Evans Co., Thirteenth and Wallace streets; A. L. Carhart, Hale Building; H. E. Baton, Twelfth and Sansom streets; Thomas C. Tracord, 1613 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; James G. Doak & Co., Crozer Building; J. Sims Wilson Co., 1029 Brown street; F. A. Havens & Co., 945 North Nineteenth street; George Hogg, 1634 Sansom street; J. E. & A. L. Pennock, Land Title Building; J. W. Emery, 1524 Sansom street; all of Philadelphia.

Residences (3), Perkins, N. J. Architect, H. B. Ward, Witherspoon Building, Philadelphia. Owner, name withheld. Frame and hollow tile, 2½ stories, 29x33 feet, 26x36 feet, 27x36 feet, tile and shingle roofs, warm-air heating, electric lighting. Architect taking bids due March 11th. The following are figuring: H. L. Post, George W. Shaner, both of Palmyra, N. J.; J. E. Hammel, Beverly, N. J.; H. B. Miller, Edgewater Park, N. J.

Residences (2), Ventnor, N. J. Atlantic City, N. J. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, M. W. Newton, Eighth and Chestnut streets, Philadelphia. Brick and plaster, 2½ stories. Plans about to be started.

Club House, Absecon, N. J. \$75,000. Architects, Frank Seeburger, Pennsylvania Building, and Walter Smedley, Stephen Girard Building. Owner, Seaview Golf Club, care of C. H. Geist, President, Land Title Building. Brick and plaster, 2½ stories, 30x200 feet, green slate roof (steam heating, reserved), electric lighting, damp-proofing and water-proofing, enameled bricks. Architects taking bids due March 12th. In addition to those previously reported, H. E. Baton, Twelfth and Sansom streets, is figuring.

Residence, Atlantic City, N. J., \$12,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, J. H. Carstairs, 254 South Third street, Philadelphia. Frame, 3 stories, 36x36 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due March 16th. The following are figuring: William R. Dougherty, 1610 Sansom street; Milton W. Young, Overbrook, Philadelphia; J. E. Kearney, 327 North Sixty-third street; W. S. Higbee, 112 South California avenue, Atlantic City, N. J.; R. T. Bowen, 114 South Millidgeville avenue, Atlantic City, N. J.

Pier (add.), Atlantic City, N. J. Architect, S. F. Voorhees, 1123 Broadway, New York City. Owners, Steeplechase Pier Co., Atlantic City. Concrete and steel. Plans in progress.

Street Paving, Atlantic City, N. J., \$100,000. Engineer, private plans. Owner, city of Atlantic City. Consists of paving on Baltic, Arkansas and Massachusetts avenues. Granite blocks, vitrified bricks or wood blocks, 9,700 feet of granite curbing. Owners taking bids, due March 19th. The following are figur-

ing: E. L. Bader, Bartlett Building, Atlantic City; Eastern Paving Co., 1416 South Penn Square, Philadelphia; Hassan Paving Co., Wooster, Mass.

Stores and Apartments, Pleasantville, N. J. 18,000. Architect, S. Hudson Vaughn, Bartlett Building, Atlantic City. Owners, Lake & Risley Co., Pleasantville, N. J. Brick and limestone trimmings, 2 stories, 64x75 feet, slag and tile roof, hot water heating, electric lighting, hardwood floors. Plans in progress. Owners will take bids in about two weeks.

Stable and Apartment House, Massachusetts and Atlantic avenues, Atlantic City, \$9,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City. Owner, J. R. Rath, Atlantic City. Enamel brick front, 2 and 3 stories, 20x30 feet and 30x70 feet, red tile roof, hot water heating, electric lighting, cement, tile and wood floors. Architect ready for bids.

New Jersey

Contracts Awarded

Church, Hopewell, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, First Presbyterian Church, Hopewell, N. J. Brick, stone trimmings, 1 story, 40x90 feet, slate roof, steam heating, electric lighting. Contract awarded to S. W. Mather & Son, American Mechanic Building, Trenton, N. J.

Residence and Garage, Ventnor, N. J., \$15,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, E. A. Parker, 27 North Juniper street, Philadelphia. Brick, hollow tile and plaster, 2½ stories, slate roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to S. H. Headley, Bartlett Building, Atlantic City, N. J.

Residence, Cape May, N. J. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Hollow tile and plaster, 2½ stories, 35x47 feet, shingle roof, hot-air heating, electric lighting, oak floors. Contract awarded to Sherman Sharp, Cape May, N. J.

Schools (4), Columbus Township, N. J., \$20,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Columbus Township, care of John I. Bishop, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 70x110 feet, 1 story, 45x45 feet, 45x45 feet and 45x90 feet, slate roofs (heating and lighting reserved). Schools located at Hedding, Columbus, Mansfield and Georgetown, N. J. Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

MISCELLANEOUS CONSTRUCTION News

Court House and City Hall, Wilmington, Del. \$1,000,000. Architects (associated), Palmer, Hornbostel & Jones, 63 William street, New York City, and John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, Wilmington and Newcastle County Building Commission, care of Thomas F. Gormley, Church Building, Wilmington, Del. Stone and steel, fireproof, 3 and 5 stories. Architects selected. Plans will be started at once.

Factory (add.), 8 Reed street, New York City. Architect, J. G. Brown, Witherspoon Building, Philadelphia. Owners, Kampfe Bros., on premises. Brick, 1 story, 100x115 feet, slag roof, steam heating, electric lighting. Plans in progress. Architect will take sub-bids.

School and Residence, Harlem, New York City. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia, and 1528 Broadway, New York City. Owners, Sisters of the Blessed Sacrament of Pennsylvania. Brick,

concrete and terra cotta, 3 stories, 75x100 feet. Architects taking bids, due March 19th. The following are figuring, all of New York City: Cramp & Co., 25 East Twenty-sixth street; John Cockerill, 147 Columbus avenue; Amsterdam Building Co., 43 West Twenty-seventh street; Fountain & Choate, 110 East Twenty-third street; Hugh Getty, 359 West Twenty-sixth street; Hedden Construction Co., 1 Madison avenue; Isaac A. Hopper, 110 West Fortieth street; John Kennedy & Co., 1133 Broadway; McDermott & Hanigan, 103 Park avenue; T. J. Waters Co., 271 West One Hundred and Twenty-fifth street; Jacob A. Zimmermann, 505 Fifth avenue.

Cottages (2), Claymont, Del. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Delaware Industrial School for Girls, Claymont. Stone, 3 stories, 84x122 feet, slate roof (heating and lighting reserved), maple and composition floors. Architect taking bids, due March 25th. The following are figuring: H. E. Baton, Tenth and Sansom streets; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia; William Provost, Jr., and Nolan Bros., Chester, Pa., and the following of Wilmington, Del.: W. D. Haddock & Co., 804 Orange street; A. S. Reed & Bros. Co., 815 Shipley street; W. H. May, 1014 Rodney street; J. E. Healy & Son, 707 Tatnall street; J. A. Bader Co., due Pont Building, and Linderman Bros.

Factory, Jackson avenue, Long Island City, N. Y., \$250,000. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia, and 1328 Broadway, New York. Owners, National Casket Co., 48 Great Jones street, New York City. Brick, steel and concrete, 6 stories. Plans in progress.

PERPETUAL MOTION—ALMOST.

Clocks are now being sold that will run without winding until their metal parts are worn out. Though it sounds like the old fallacy of perpetual motion the principle of the mechanism is far from it, for the clocks utilize the energy of the rise and fall of daily temperature, says the "Saturday Evening Post."

Metal bars, which are very sensitive to temperature changes, are so arranged that when the thermometer goes down and the bars shorten in length the slight motion of the bars will be fully used; and again, when the temperature rises and the bars lengthen slightly, this motion also will not be wasted.

The motion from the bars serves to lift little steel balls from a lower reservoir to an upper reservoir, and these balls are used to turn a wheel, much like the old-fashioned waterwheel action. It is only on such a slight demand for power as in clocks that the energy of temperature expansion and contraction is likely to be used.

On the assumption that an ordinary small clock will run twenty-four hours on the energy represented by dropping one pound one foot, and that it would cost one dollar for enough metal rods to develop this amount of power, it would cost to develop one horsepower \$47,520,000!

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

MORE OR LESS PERSONAL.

Neff & Thames have opened offices for the practice of architecture at 824 Heed Building, 1215 Filbert street, Philadelphia.

* * *

Albert F. Schenck has removed his architectural offices from Betz Building to Real Estate Trust Building, Broad and Chestnut streets, Philadelphia.

* * *

J. Horace Frank and Franklin D. Edmonds have opened architectural offices in the Real Estate Trust Building, Philadelphia, and will conduct business under the firm name of Frank & Edmonds.

ARCHITECTS AWARDED \$750.

Six Competing Firms for Wilmington Building Get That Sum.

Each of the six firms of architects who prepared plans in the competition from which a jury selected the drawings to be followed in the construction of the joint city and county building at Wilmington, Delaware, have been awarded \$750 by the Wilmington Building Commission. Three of these firms were those especially selected by the commission, Cass Gilbert and Carrere & Hastings, of New York, and Borie, Zantzinger & Mardary, of Philadelphia.

The others were the winning firm, J. D. Thompson, Jr., of Wilmington, associated with Palmer, Hornbostel & Jones, of New York, and the firms drawing the next two positions, Tracy & Swartwout, New York, and Parker, Thomas & Rice, Baltimore.

The amount received by the winning architects will be applied to their initial payment of 10 per cent. on their commission.

FALSE SENSE OF ECONOMY.

A friend of mine was talking of the false sense of economy which many people have which makes them do very ridiculous things under the impression that they are models of common sense.

"When I was a boy," he said, "we had a large orchard. My father was one of those economical individuals. He would make us pick out all the apples with rotten spots in them and eat those first. By the time we finished one supply of rotten apples, there would usually be others rotten enough to begin on. If not, we were supposed to wait until some began to spoil before we took them. In this way we went all winter, eating rotten apples, and letting the good ones stay in the bins. It always seemed a wicked waste to my father to see anyone eat an apple that was sound enough to keep a while longer.

Do you eat your rotten apples and leave the good ones to spoil? Do you neglect your rich and mellow opportunities to come in touch with the best things of life, while you satisfy yourself with the meager salvage of things outgrown? Beware of "rotten apple economy." It would rob you of the best that life holds for you.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

E. H. Butler (O), Bellevue Court Building. A. Whitehead, Inc. (C), 1624 Latimer street. Cost, \$22,300. Residence, stone, stories, 20x30 feet, Germantown.

E. J. Houghton (O), American and Somerset streets. Bushnell Bros. (C), 2246 North Fifth street. Cost, \$11,500. Factory, brick, 3 stories, 42x54 feet, American and Somerset streets.

Peter Braude (O), Broad and Race streets. A. Whitehead, Inc. (C), 1624 Latimer street. Cost, \$17,000. Saloon and hotel, Broad and Race streets.

W. P. Dasse (O), 3236 Sansom street. J. Rose & Sons (C), 5121 Brown street. Cost, \$13,000. Theatre, brick, 1 story, 63x90 feet. Cost, \$2,000. Residence, brick, 2 stories, 20x30 feet, Fifty-first and Aspen streets.

International Society of Waiters and Bartenders (O), 1131 Arch street. Stack Reeves & Sons (C), 2011 Market street. Cost, \$30,000. Club, brick, 3 stories, 36x100 feet, 157 North Fifteenth street.

A. L. Rudolph (O), 5221 Ridge avenue. Cost, \$4,000. Two dwellings, brick, 2 stories, 15x30 feet, Ridge avenue and Harvey street. Cost, \$4,000. Two dwellings.

M. J. Lazaroff (O), 1418 South Sixth street. Cost, \$4,500. One dwelling, brick, 3 stories, 20x30 feet, 2232 South Seventh street. Cost, \$3,500. One dwelling.

Louis Cohen (O), 417 Christian street. Cost, \$3,000. Dwelling, brick, 3 stories, 15x20 feet. 221 Delancey street. Cost, \$3,200. Store and dwelling.

Alterations and Additions

E. A. Brokney (O), 924 Walnut street. J. F. McCloskey (C), 210 New street. Cost, \$2,000. Apartment house, 328 Bainbridge street.

D. Schorsch (O), 1642 Erie avenue. Cost, \$1,000. Dwelling and store, 2102 Ontario street.

Dr. H. F. Weber (O), 4440 Germantown avenue. N. M. Bean (C), 4411 Germantown avenue. Cost, \$1,200. Dwelling and stores, 4601 Wayne avenue.

William Berg (O), 1546 South Seventh street. S. Katz (C), 708 Reed street. Cost, \$800. Stable, 1620 Beulah street.

Mrs. W. F. Jenks (O), 920 Chestnut street. J. Duncan (C), 920 Walnut street. Cost, \$1,000. Dwelling.

Estate of M. H. Matsinger (O), 517 Chestnut street. Wiler & Hart (C), 122 South Thirtieth street. Cost, \$3,500. Manufacturing, 1222 Race street.

Brann & Stuart Co. (O), Commercial Trust Building. Cost, \$1,000. Storage Shed, Bleigh and State streets.

M. Yeserky (O), 325 Tasker street. S. Lashner (C), 1700 South Fifth street. Cost, \$3,300. Dwelling and stores, 3327 North Front street.

Ridge Avenue Farmers' Hotel (O), Eighteenth street and Ridge avenue. F. A. Havens Co. (C), 845 North Nineteenth street. Cost, \$3,900. Hotel, Eighteenth street and Ridge avenue.

Lubin Manufacturing Co. (O), Twentieth street and Indiana avenue. F. A. Havens Co. (C), 845 North Nineteenth street. Cost, \$2,200. Manufacturing building, Twentieth street and Indiana avenue.

M. J. Lazaroff (O), 1418 South Sixth street. Cost, \$3,500. Store, 124 Spruce street.

C. Held (O), 2841 North Twelfth street. George Kessler Construction Co. (C), Drexel Building. Cost, \$1,500. Warehouse, 816 Locust street.

D. Seidman (O), 232 North Second street. Cost, \$1,000. Stable, 218 Vine street.

J. & J. Dobson (O), Falls of Schuylkill, Pa. Cost, \$5,000. Manufacturing building.

M. Schiff (O), 467 North Sixth street. B. Cutner (C), 131 Berks street. Cost, \$4,000. Dwelling, 3811 Haverford avenue.

C. N. Biddle (O), 517 Commerce street. J. G. Brown (C), Witherspoon Building. Cost,

\$80,000. Warehouse, 517 Commerce street.

Robert McCarter (O), 1512 Ritner street. A. Donaldson, Jr., 2237 Oakford street. Cost, \$1,200. Bottling house, 1508 Ritner street.

World Score Board Co. (O), 1225 South Wabash avenue. A. R. Raff (C), 1635 Thompson street. Cost, \$2,500. Sign, Broad and Huntingdon streets.

A. M. Mahjaulian (O), 126 South Sixtieth street. Cost, \$2,500. Store and dwelling, 33 South Sixtieth street.

P. Sellheim (O), 1309 North Thirteenth street. M. Weiss (C), 326 Drexel Building. Cost, \$3,600. Residence, 1227 Girard avenue.

N. L. Miller (O), Commonwealth Building. Cost, \$15,000. Store and dwelling, 812 Columbia avenue.

Benjamin Alexander (O), 1326 Chestnut street. Frank Lucci (C), 1351 Christian street. Cost, \$1,000. Manufacturing, 223 North Thirteenth street.

Johnston-Holloway Co. (O), 1730 Spring Garden street. William Easterbrook (C), 146 North Fourth street. Cost, \$2,000. Manufacturing, 1730 Spring Garden street.

E. T. Hoag (O), 5414 Chester avenue. George Downward (C), 2125 South Frazier street. \$2,000. Store and dwelling, 5412 Chester avenue.

THE NEED OF A CONTRACT COST BOOK.

A contract cost book should be kept in which the cost of every contract should be entered as performed, for comparing with the estimate book, and for future estimating, also that you may know whether you have made or lost money on any particular contract.—“Sheet Metal.”

The man “who doesn't believe in advertising” can't understand why the other fellow gets the business.

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

CITY TO HAVE EXHIBITS AT INDUSTRIAL SHOW.

The Industrial Exhibition which will be opened at the Second Regiment Armory, Broad street and Susquehanna avenue, Philadelphia, on March 14, will be continued for two weeks both afternoon and evening.

Numerous novel features have been introduced by the management, most of which will be surprises. Practically all the exhibition spaces have been taken. The Second Regiment Band has been engaged. Instructive exhibits by the Departments of Health, Safety and Public Works and an armament display from the Frankford Arsenal will be shown. The new \$10,000 fire engine purchased by the city will also be on exhibition.

Returns of building operations for February in 60 cities, officially received by the “American Contractor,” reach a total of \$41,173,253, as compared with a total of \$41,128,190 in the same cities for February, 1913. Trade a year ago was regarded as active, and the showing must therefore be regarded as favorable. There are the usual fluctuations in different cities, 30 showing gains and 30 losses. For two months the totals are \$81,347,364, as compared with \$80,646,849 for the corresponding period of last year, a gain of one per cent. The figures from the leading cities are as follows:

City.	Feb., 1914.	Feb., 1913.	Per Cent. Gain.	Loss.
Albany	\$200,650	\$333,100	..	40
Atlanta	335,391	423,581	..	21
Baltimore ...	417,743	723,135	..	42
Buffalo	395,000	347,000	14	..
Chicago	5,098,400	4,668,600	9	..
Cincinnati ...	316,518	346,832	..	8
Cleveland	1,398,010	1,167,725	19	..
Columbus	225,915	225,890	..	..
Detroit	3,020,850	1,567,970	92	..
Duluth	147,370	83,500	76	..
Harrisburg ..	40,675	42,575	..	4
Indianapolis..	292,938	479,653	..	39
Kansas City..	1,053,950	488,000	116	..
Los Angeles..	1,455,730	1,693,582	..	14
Louisville ...	163,800	553,320	..	70
Milwaukee ...	578,384	518,836	11	..
Minneapolis ..	498,005	361,590	37	..
Newark	1,247,933	1,094,009	14	..
New Orleans..	204,794	387,906	..	47
New York....	8,257,113	15,221,949	..	46
Omaha	221,175	236,988	..	6
Philadelphia..	1,794,905	1,414,645	27	..
Pittsburgh ...	3,010,568	769,161	161	..
Richmond ...	270,567	391,812	..	31
Salt Lake City	112,600	101,950	10	..
San Francisco	4,574,281	1,298,450	252	..
St. Paul.....	371,444	218,698	70	..
Scranton	64,729	69,730	..	7
Seattle	553,395	1,468,560	..	62
South Bend...	43,950	8,600	411	..
Spokane	24,125	47,063	..	48
Toledo	606,400	406,280	49	..
Topeka	47,403	25,970	82	..
Washington...	864,036	631,983	40	..
Wilkes-Barre..	55,973	22,520	64	..

ARCHITECTURAL LANDSCAPING

Imagine a story book containing tales, each with plot extending helter-skelter through its pages with no enlivening dialogue, little action, no incidents of stirring interest to relieve the dull monotony of its dreariness. Imagine such a volume gayly bound in red and gilt, cleverly concocted to catch the eye and impel a purchase—brilliantly lettered and engagingly illuminated. You might buy this book, of course, but upon reading would you enjoy it? Could it take you away from those prosaic everyday problems that are so wearing? Would it act as healthful stimulant to the imagination and food for the intellect—in short, is it the kind of book to be picked up any day in the year and reread—a delightful entertainer, an amiable companion, an ever-present loyal friend?

Your dreary book—your insincere, poorly written, uninteresting, ill-advised volume wasting book shelf space is to the library what poorly designed, dull, immaturely developed landscape gardening is to the house. That is to say, the one has no place in your daily life because tame and devoid of interest, the other lacking snap and sparkle is uninteresting in itself nor does it in any way enhance the beauty of the house. Both book and garden may contain elements of beauty, lost, however, by unskilful treatment.

When building a home all the attention should not be fastened upon the house plans to the extinction of the landscape treatment of house surroundings. Though many have made this mistake, others with better understanding, realizing that the house itself can be easily spoiled by unsympathetic treatment of the home grounds, have gained beautiful results which may serve as valuable suggestions to householders in general.

At the beginning of planning a house one cannot, of course, develop a very comprehensive scheme for architectural landscape. It is only after the building has been built and its effect studied from every angle that the problem arrangement of the grounds can be fully appreciated, but right at the start before ground is broken for the cellar, even, a general idea of after planting should be well fixed in mind.

For instance, how is it possible for architect or owner to correctly plan the house unless familiar with the building site—unless having an approximate idea of how the building should be located on the lot—where approaches will be, including entrances, drives, fences and gates? When building operations are actually begun, how is it possible to locate the house to best advantage unless some idea of future planting is borne in mind?

Time to consult a landscape architect or gardener is before the house is started. Of course, any expert can study an existing house and plant the grounds skilfully, but how much better when he has had an opportunity to advise before the house is actually begun? Then, he can formulate a scheme whereby

house and surroundings will be a complete unit with all buildings set to become part of a single, comprehensive plan. This is the way our English cousins handle their problem, and in no country in the world is architectural landscaping better understood. Famous Chatsworth is a good example.

What is meant by the term “architectural landscaping?” One must understand that gardening and architectural landscaping are not the same thing. By the term garden, it is to be presumed, we mean merely a decorative floral detail, one portion of the complete plan embraced under the term architectural landscape. In other words, the garden is merely one page or a single chapter of which there are many contained in the volume called architectural landscaping. Just as an author must have a general conception of his entire plot before he writes the first page, so should the house owner have a plan for his architectural landscape, before he considers a single flower, shrub or tree.

Most landscape architects make a preliminary study of their problems by considering general requirements, broadly. Before giving thought to this shrub or that flower they consider a location for the house, where its approaches (walks and drives) could be laid out to best advantage.

Naturally, this preliminary study also involves grades and drainage, for it must be determined right at the start whether the house is to stand high or low—whether abrupt banks and terraces should be built or long sloping lawns with unbroken surfaces. If terracing is to be resorted to, steps and retaining walls must be considered. Driveways and walks must also receive attention at this time. This is all matter requiring expert knowledge, though the owner, of course, by study and observation, may be his own “expert.”

The next step is to consider the landscape as it will appear from inside the house, for one must remember that it is not sufficient to plant the home grounds for exterior beauty alone. Views from windows must be considered. Uninteresting or annoying buildings next door must be screened. Good vistas from living room and library windows must be planned to make the home more enjoyable.

Then, after a time, one begins to think of actual planting details. This kind of shrub which will prove hardy in a shady spot and that kind of bloom to furnish flowers during the hot, dry days of July. But these details should not be studied until after the general scheme is planned.

To be sure, all house owners do not go at the problem in this way. Many just proceed to build a house, leaving details of landscape work to be taken care of after the house is finished. Those who have tried the other way, however, find it possible to get more successful results. In almost every case when you view a house well set in the midst of grounds charmingly laid out you may be sure

the architectural landscape and the house were planned together.

Many practicable ways for considering the architectural landscaping of a place will occur to everyone. One can always consult a gardener or landscape architect. Many dealers in shrubs and trees employ gardeners or landscape architects for the convenience of their customers. Often this service is furnished gratis; in other instances a fee is charged for a complete landscape plan. For large estates (or small ones, either, for that matter) one can consult an independent landscape architect who will visit your building site and draw plans and specifications fitted to your needs. With a sketch plan of the building site furnished by the owner, experts can even give good advice by mail.

Some house architects include with their service the designing of the landscape work surrounding the house. Others work with a landscape architect so that house plans and landscape plans can be developed in close harmony.

Almost every reader is familiar with the general adjuncts required in modern landscape architecture. There are walks and drives made of cement, brick, stone, tile or gravel with fences, posts and walls, all of which can be made very decorative when employed skilfully. Then there are various styles of terrace; high terraces and low terraces with cement or stone steps and balustrades which help so much to set a house off and give it a good architectural base to stand upon. Pergolas, summer houses, garage, tool houses, sheds, greenhouses, lattices—all can be and should be considered in the original scheme.

Take, for instance, the garage. Naturally this building can be located anywhere on the lot at about equal cost. It makes no difference whether it is placed north, south, east or west. Yet what an agreeable effect in the landscape treatment of the home grounds is produced when the garage is located at the termination of a pretty vista, or, perhaps, when connected to the house by means of a charming pergola or simple lattice fence.

Summer houses cost about the same in any location, but they greatly enhance the effect of an architectural scheme when located at some important spot like the center of the garden or when two of them are placed, one in each corner by the garden wall.

At least one fountain should be set at some focal point in the garden. Simple, inexpensive pools of cement make beauty spots of great value in the landscape. Low cement boundary walls at the edge of a driveway or beside a terrace also give snap and life to the architectural appearance of the grounds, at slight cost.

Many go in for Japanese gardening with quaint landscape effects in miniature, and when sympathetically handled the Japanese garden is most charming and costs very little. One can often pick up bronze and clay lanterns or garden furniture suitable for Japanese gardens at very reasonable prices;

(Continued on page 165.)

Bell Phone, Spruce 6612

Keystone Phone, Race 2799

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Irving Dillon.....Editor

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Editorial Comment

An advertising talk makes pretty good editorial filling for a trade magazine now and then; hence the advertising trend in the comment that follows. Everybody, we take it, is more or less interested in advertising nowadays, including the fellow who tries to tell you that he "doesn't believe in it."

* * *

"If a man can write a better book, preach a better sermon or make a better mouse-trap than his neighbor, though he build his house in the woods, the world will make a beaten path to his door," wrote Emerson.

Prettily phrased, that sentence, but miles and miles away from the grim, unyielding fact. The best sellers in the world of books are not the best books by a long chalk, as Ralph Waldo would be prompt to admit if he were here to read them; nor are the best sermons delivered in the crowded temples nor from the highest-salaried pulpits. Moreover, the best selling mouse-trap isn't the best, as many of us are abundantly able to testify. Things, indeed, have changed materially since the day of Emerson. The man who builds his house in the woods, expecting the world of to-day to make a beaten path to his door will arrive at the beaten path all right, but it will be made by the wolves of hunger. Remodeled to jibe with present-day practicality, Emerson's sentence would run about like this:

"If a man can write a book that is not irredeemably bad, preach a sermon that is not hopelessly idiotic or make a mouse-trap concerning which mice will evince even a mild and passionless curiosity, and he is a shrewd, consistent and persistent advertiser, though he build his house in the woods the world will keep the local postmaster busy sorting his mail. Elbert Hubbard built his house in the woods, but then the Fra is the greatest advertiser since Phineas T. Barnum, and as a result, the world has furnished the beaten path all right, and has lined it with hedges of glittering mazuma. We'd give a big, fat, crimson pippin to hear Hubbard's own private, personal opinion of this Emersonian idea that the busy, scheming, workaday world of the present will take time to seek out the wooded genius whose merit is his only advertisement.

We've a shrewd notion that the Fra's opinion would be worth printing!

* * *

He's the sales manager of one of the biggest corporations in the building equipment industry, and he spends annually something like a hundred thousand dollars in advertising space. He does this, he tells us, not because he believes in advertising, but because the money is given to him for this purpose, and the house expects it. Personally he doesn't think it's "worth a d—n," to use his own terms. Not only newspaper advertising and trade magazine advertising, but

any sort of advertising. In thirty years of experience he never knew advertising to bring any of the firms with which he served a profitable return. If he had his way his house wouldn't spend a penny on advertising of any kind or sort. But the house thinks otherwise, and he is obliged to humor it by buying a certain amount of space. The concern this gentleman represents is one of the best known houses in its line, a concern whose goods are sold all over the country, and one that does an enormous annual business. The sales manager is entirely serious in his view that the advertising appropriation is simply so much good money annually thrown away. How did such a man ever reach the position of sales manager? That's precisely what occurred to us. Another and correlative thought also suggested itself: How does he hold on? It is inconceivable that a man laying serious claim to views so wildly at variance with those held by his own superiors, the world of men and its leaders in commercial affairs, should be worth a fraction of the salary paid to him whether as sales manager or in any lesser capacity involving either administrative common sense or the plainest executive judgment. No man holding views such as those quoted can safely be trusted to intelligently disburse the advertising appropriation of any house. His views absolutely disqualify him. He is as much out of place as a hooded monk at a Tango tea.

* * *

You've met the man who "does a little advertising now and then," but "can't say that it ever did him much good." Of course you have. We've all met him because he's about as numerous as the original Wilson man, lives everywhere and infests communities of every size from the little village at which the accommodations hesitate one day a week up to big business centers where the men talk cuisine, limousine and gasoline to blonde typists and the women parade bearing banners inscribed, "Votes for Women." We met one of that species the other day—"advertised once in a while,"—in the spring generally,—but it "didn't seem to pay." A little talking elicited the fact that he had advertised three months in five years, taking a one-inch space in a well-known trade magazine. Doesn't this type of business man just naturally get your angora? He does ours, we know. Figured, like as not, that a one-inch card run three months ought to make everybody in the trade sit up and look startled and should bring in new business at a gait calculated to keep his plant working overtime. No, we didn't disillusionize him. We couldn't bring ourselves to thinking that the usual process in his case would be worth while. Life is so short, you know, and there are so many things better worth the doing. Besides, that type of fellow is usually quite

hopeless. It's like talking metaphysics to a bull or descanting upon the Eleusinian mysteries to a group of prize-fighters. We noticed, while talking to him, a decorative filagree of cobwebs festooned upon the order files on his desk. The circumstance struck us as much too typical and appropriate to be disturbed by intrusive modern ideas, whether of advertising or of office management.

* * *

"Noah filled the ark," says an exchange, "without advertising."

Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us, for 40 days and 40 nights.

ARCHITECTURAL LANDSCAPING.

(Continued from page 163.)

treasures that will prove of lasting value as garden ornaments.

Cement, clay and metal garden urns can be had in infinite variety of pleasing forms. Nothing adds more directly to the charm of architectural gardening than pieces of this sort. Garden seats and tables made of cement or stone are attractive and should be employed in the scheme by all means. Bird pools and sun-dials are, of course, desirable and do not involve a great expenditure.

As already stated, of first consideration is the landscape scheme itself. Start with a complete idea sketched out on paper showing floor plans of house, garage, sheds and other buildings. Lay out drives and walks. Plan lawns and terraces. Locate shrubbery and trees. Select the best spot for the flower garden and another good place for the vegetable garden. Indicate walls and steps where they will be useful and effective. Consider seats, pools and other garden furniture.

All this, it will be readily appreciated, involves a great amount of study, considerable patience and not a little skill, but it is work that proves intensely interesting. It is labor that brings returns year after year as long as your place stands.—Charles E. White, Jr., in "House Beautiful."

CONCRETE HOUSES.

Limitations imposed by cost, which in most cases prohibit the attainment of even ordinary architectural attractiveness, have restricted the use of concrete in houses of average size. For fireproof dwellings on a more pretentious scale reinforced concrete is gradually taking a prominent place. At the other extreme, for workingmen's houses, it has been found possible to cast groups of small houses, all alike and very plain, that are satisfactory from the standpoint of use and are low in cost and in upkeep. These have been built recently in various localities—one group in Nanticoke, Pa., another in Oklahoma, while similar development is taking place in France and Ireland. In Ireland 39,000 of these houses have been built in the last three years.—"Engineering Journal."

GARDEN CITIES NEAR GREAT CENTERS

Status of the Movement Here and Abroad—Three Types of Communities—Aims and Methods—30,000 Population for the Ideal Community.

By George E. Hooker, Civic Secretary City Club, Chicago.

There are three types of communities to which the term garden is prefixed, namely, the Garden City, the Garden Village and the Garden Suburb. In 1912 there were in Great Britain 30 estates falling under one or another of these three types, and varying in size from 6 to 3,818 acres. They comprised altogether about 10,000 acres, of which 2,400 were developed with over 9,000 houses, sheltering 37,500 people. The present investment is probably about \$12,000,00 and will presumably be several times greater when the schemes in hand are completed in the course of the next few years.

The movement has extended to Germany, where in June, 1912, there were ten garden city estates being developed, on which 669 houses had then been erected. It has spread to France, Hungary, Italy, Sweden, Canada and the United States, and the propaganda is at least going on in Spain and Australia. Forest Hills Gardens and other garden cities within the bounds of Greater New York; Forest Hills Gardens in Boston; Fairfield, the newest steel town, near Birmingham, Ala.; the new industrial village at Marcus Hook, Pa., and numerous other housing experiments recently initiated or now under consideration in this country, reflect the widespread influence of this movement, even though none of these American instances involves all of its distinctive features.

Origin of the Term.

The term garden city appears to have been, if not originated, at least given public standing by Mr. Ebenezer Howard, of England, in his history-making little book, "Garden Cities of To-morrow," published in 1902, as the second edition of his "To-morrow; A Peaceful Path to Real Reform," published in 1898. By a garden city, Mr. Howard meant a self-contained city—supported by local industries of its own—ideally laid out on a goodly site surrounded by a wide and permanent agricultural belt, its population being arbitrarily limited to about thirty thousand people, distributed at a density not above twelve families to the net acre, and its land tenure being such as to turn all increment in land values above a five per cent. dividend on cost of acquiring and developing the estate, into the coffers of the community.

Of the garden city proper, therefore, there is but one example in Great Britain, namely, Letchworth, which was started nine years ago on the central third of an acquired estate of six square miles, thirty-four miles northeast of London, and now comprises

forty local industrial firms, together with a population of 8,000. Hellerau, situated a few miles out from the City of Dresden, Germany, is a much smaller and a more recent example of such a community.

A Garden Village.

This is a community which is only residential in character, and is created by the proprietor of some large industry, near which it is located, for occupation by the employees of that industry. Port Sunlight, built by Lever Brothers, adjacent to their soap factory, in the outskirts of Liverpool, beginning in 1895, and now comprising 135 acres, with 800 houses occupied by 3,200 employees of the company, is the finest example of this type. There are probably half a score less conspicuous examples in Great Britain.

A garden suburb denotes an area in the outskirts of an existing important city, developed on ideal lines for residential purposes only, and designed for tenants from this city, irrespective of where they may be occupied. The first and best known is Bournville, situated four miles from the heart of Birmingham, to which city it was recently annexed. It was begun in 1895 by Mr. George Cadbury, on a part of the site to which the Cadbury Brothers' chocolate works had been moved from a crowded district in Birmingham.

The Hampstead Garden Suburb is perhaps the most conspicuous example to-day of the garden suburb. It was started in 1907, on an estate five miles from the heart of London, comprising 240 acres, lately increased to 352 acres, of which 180 acres had in 1912 been developed with 1,030 houses accommodating 4,500 people. There are probably a dozen or more less well-known British instances of the Garden suburb.

While keeping in mind the three types of garden communities mentioned, we may perhaps allow ourselves for general purposes to follow the common custom of applying the term "Garden City" loosely to all these types, and thus to speak of the Garden City movement as including them all, and as related to other efforts toward housing and social reform.

Methods.

What are, now, the distinctive garden city methods of development? While these are all exemplified in all instances, the following are, I think, the chief essentials:

Single Ownership—The entire estate belongs to one owner at the start, and remains under one owner, subject only—aside per-

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haps from the public streets—to temporary or leasehold rights in individual occupiers. Aside from this owner, no one but an occupier can have any continuing rights in any portion of the estate. By this and other means speculation and non-resident ownership are excluded, and the highest practical degree of operating freedom is secured for the gradual and orderly development of the estate according to experience and changing needs.

Skillful Planning—The estate is skillfully laid out as a whole before any part is built upon. Its different sections are all located to their most appropriate uses—residential, industrial, commercial, recreative, scenic; scrupulous attention is given to the preservation of features of natural beauty and vistas; to the allocation of the most salubrious and attractive sites for residence, to the assignment of industry to the leeward if possible of the rest of the estate, to the wise location of the main lines of communication, and to the adjustment of transportation factors to industrial, commercial and social needs.

The industrial district also, if there be one, is arranged so as to secure the most convenient contact with transportation lines, and to supply power and other special facilities in accordance with some general plan. The sites for the chief buildings, or groups of buildings, public and semi-public, are fixed, the subordinate streets, of proper width and direction, are located as development requires, the general character of houses for different residential districts is decided, and in general the aesthetic resources and possibilities of the site and plan of development, as well as the social and institutional life of the future inhabitants, are constantly kept in mind.

Characteristics.

Low Density.—It is characteristic of all

these garden community enterprises that the density of population is definitely limited to a low average—ranging from six to twelve single family houses per gross acre. This is the most central and vital feature of garden city development.

Gardens.—Nearly all dwellings are of the cottage or single family type, and nearly all have annexed to them ample spaces for the cultivation of flowers, shrubs, garden vegetables, and fruit trees. The growing of these is also encouraged by having the garden prepared, as well as the house, when the tenant takes possession. Gardening advice is made available and flower and vegetable shows are promoted among the occupants. Bournville gardens yield two shillings per week per year to the family.

Limited Profit.—The income on investment is in practically all cases restricted to a low limit, this being usually made a legal provision in the enterprise. The limit is from 4

per cent. to 5 per cent.—usually 5 per cent.

Unearned Increment.—It is arranged in the most important instances that the increase in the site value of the estate, or the unearned increment, shall inure to the benefit of the community, this being done in different ways in different cases.

Sustained Character.—Centralized ownership and management make it possible to exercise control over the entire estate in such a way as to protect it from speculation or the results of individual irresponsibility, and to maintain its character in a permanent manner; thus occupiers are afforded a peculiar assurance that the residential amenities of the neighborhood will be preserved.

Good Homes.—By economizing in streets through building them narrow and using inexpensive paving on subsidiary roads a saving in the cost of lots is effected which makes it possible to include that much more land in the lot.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

****The Charles Bond Company**, 520 Arch street, Philadelphia, manufacturers of belting, power transmission equipment and mill supplies, recently secured an order for a 6-ply conveying belt of "Veelos" Balata Belting, to be 1,045 feet long and 30 inches wide. This is an unusually large belt, and demonstrates forcibly that the Charles Bond Company is prepared to fill promptly all requirements for mill supplies.

****Mr. W. H. Phillips**, the new president of the Paint Manufacturers' Association, who succeeds one of the ablest and best-known men in the Trade, Mr. E. H. Dyer, is himself one of the most respected Paint Men in the country, zealous and sacrificing in advancing and protecting the Trade's interests in the various phases of its organized activities. He is one of the 90,000, of New York City's five million inhabitants, who was born and raised and has always lived in New York City, and whose parents were also born and raised and lifelong inhabitants of that village. He was educated in the public schools of the City of New York. He entered the paint business when a youth, in the New York factory of F. W. Devoe & Co., now the F. W. Devoe & C. T. Reynolds Co., a concern whose trade-mark bears the words "The first American paint maker, Devoe. Founded 1754." He served eight years in the factory, then traveled for some time, and in 1901 he became a stockholder in the company, of which he is now the manager. He is a member of the Society of Naval Architects and Marine Engineers, National Sculpture Society, New York Railroad Club, Thousand

Islands Yacht Club, and the New York Drug & Chemical Club. He is also a member and ex-president of the New York Paint, Oil & Varnish Club and of the National Varnish Manufacturers' Association.

****Trinity P. E. Church** in Copley Square, Boston, has had its sanctuary enriched with a baldachin, designed by Shipley, Rutan & Coolidge, architects. The base on which the communion table stands is raised three steps from the chancel floor. Six columns surround the table on three sides, leaving the front open. Two lions support the columns on the front. The front columns support a semi-circular arch with a pediment over it, on which are two peacocks, the Byzantine symbol of immortality. On the corners, above the caps, are two conventionalized eagles representing the air. Two fishes represent the water, and the vines which enrich the front faces represent the earth. Covering the communion table and joining the columns to the front and forming the inside of the roof is an elliptical dome. The communion table is a simple block of marble with a cross in the centre of the front.

****H. F. Gillespie**, formerly superintendent of the Standard Paint Company's plant at Bound Brook, N. J., will with Herbert Abraham have charge of the company's business in the New York territory.

****The Ninth Exhibition** of the Brooklyn Chapter of the American Institute of Architecture will be held at 131 Remsen street, Brooklyn, from Sunday, March 15th, to Saturday, March 28th, inclusive, without charge to the public. The public exhibition will be



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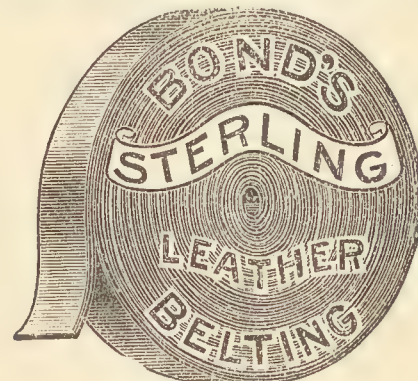
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precede by the private view, reception and annual dinner of the society, Saturday, March 14th. The exhibition committee, John B. Slee, chairman, H. Lincoln Rogers, Carroll H. Pratt, William P. Bannister and John Ph. Voelker, have spared no effort to make this year's exhibition the best in the history of the society.

**By a referendum vote, the United Brotherhood of Carpenters and Joiners of America have decided to withdraw from the Building Trades Department of the American Federation of Labor.

**William M. Russell, formerly connected with the Tiffany Studios, has formed a company to do a general contracting and interior decorating business. The new firm, known as William M. Russell & Co., have opened offices at 353 Fifth avenue, New York City.

**The Tileine Company has recently taken a large suite at 101 Park avenue, New York City, and has decorated and furnished it in an elaborate manner for use as general offices, using the company's own product in this work as far as possible. In the directors' room and private offices the color of flooring is old ivory, which harmonizes with the furnishings. The floors in the offices, draughting rooms and salesrooms are of a deep red tone. The floors as laid demonstrate what it is possible to achieve in work of this character.

**James A. Coffey, formerly manager of the waterproofing department of the American Asphaltum & Rubber Co., New York City, has been appointed manager of New York City office, at 103 Park avenue, of C. S. Garrett & Son, waterproofing engineers and contractors, Philadelphia, Pa.

**Col. H. D. Savage, who has been connected with the Ashland Fire Brick Co., Ashland, Ky., for 17 years, has resigned and, after March 1, will be associated with the American Arch Co., 30 Church street, New York City.

BUILDING TRADE WAGES IN NEW YORK FOR 1914.

The United Board of Business Agents of the Building Trades of Manhattan and Vicinity has issued a circular giving the prevailing rate of wages for 1914. This schedule is based on eight hours' work per day from 8 A. M. to 5 P. M., except on Saturday, when work ceases at noon. Compensation for a practical foreman ranges from fifty cents to one dollar per day over and above schedule as shown. All recognized legal holidays and Saturdays to be figured at "double time:"

Asbestos workers, boiler felters, pipe coverers, insulators	\$4.75
Asbestos workers' helpers	3.00
Boilermakers and iron ship builders	5.00
Boilermakers' helpers	3.50
Bricklayers	6.00
Bricklayers' helpers	3.00
Carpenters and frafers	5.00
Cement and concrete masons	5.00
Cement concrete and ahphal labor-	

ers	3.00
Derrickmen and riggers	4.00
Decorators and gilders	4.50
Elevator constructors	5.28
Elevator constructors' helpers	3.40
Electrical workers	4.80
Electricians' helpers	2.20
Electrical fixture workers	4.80
Engineers, portable hoisting, etc., \$30.25 weekly; by the day	6.00
Housesmiths and bridgemen	5.00
Ironworkers	5.00
Ironworkers' helpers	3.50
Ironworkers' apprentices	3.00
Metallic lathers	5.00
Mosaic workers	4.50
Mosaic workers' helpers	3.00
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Painter-letterer, painter-grainer, painter-varnisher	4.50
Roofers, tar, felt, composition, damp and waterproofers	4.25
Sheet metal workers, coppersmiths, tinsmiths, metal roofers	5.00
Slate and tile roofers	5.00
Steam, hot water and general pipe- fitters	5.50
Steamfitters' helpers	3.00
Tile layers	5.50
Tile layers' helpers	3.25
Wood lathers on new work, \$3.50 per 1,000; overhauling jobs	5.00

FURNITURE AND ARCHITECTURE.

Consistency is a jewel. Never was truer word uttered. This maxim is of universal application, say H. Donaldson Eberlein and Abbott McClure in the "Architectural Record." It holds good equally whether we deal with abstract principles or with the most material objects, whether we discuss nice moral distinctions and obscure points in casuistry or talk of "cabbages and kings." Architecture and furniture, being neither at the extreme of abstraction nor its material antipode, come well within the category of subjects in which consistency's rare value is recognized. We are all, doubtless, inconsistent at times and perhaps we occasionally enjoy the whimsical tang of a bit of inconsistency for the sake of contrast, but, in the long run, we may be perfectly sure that only adherence to consistency's decrees will stand the searching tests of time and usage.

Between furniture and architecture there exists an obvious and close relationship which, however, in spite of its potency and propinquity, we seem sometimes to lose sight of amid all the medley wealth of possible choice that to-day confronts mind and eye alike. To be consistent at any time requires a degree of clear vision and intelligent discrimination and it is just because we are in danger of having our vision dulled and our sense of discrimination blunted by the multiform

distractions, mobiliary and architectural, with which modern conditions have surrounded us, that the ensuing papers are presented for consideration, especially the consideration of architects who, of all people, most need to realize keenly the vital connection between furniture and architecture if they are to exercise a wholesome influence upon the designed and ensure the permanency of their satisfying quality. This much, indeed, do they owe their professional reputations.

It is easy enough to avoid the glaring inconsistencies and barbaric gaucheries, the mere mention of which makes one's blood run cold and which none but madmen or depraved criminals would dream of perpetrating; it is easy enough to avoid such missteps as furnishing an Elizabethan oak paneled room with the gilded and brocaded gaudiness of Louis Quinze tables and chairs or to shun

Spurious Art Works.

Herr Bode, a well-known German art writer, contributes to "Kunst und Kunstler" of Berlin, a long article deploring the alleged waste of American money upon more or less doubtful works of art sold as of value and antiquity. He greatly praises the collections made in this country by Mrs. Gardner and Messrs. Shaw, Marquand, Havemeyer and Ryerson, but declares that other collectors have not been so fortunate or so wise. The Raphael portrait of Ripalda, he says, was refused by every famous museum in Europe at half the price paid by Mr. Morgan. Its authenticity is unquestioned, but it is called a poor and uninteresting work. Upon the other hand, the collection of small objects and bric-a-brac bought by Mr. Morgan from Mannheim of Paris and Gutmann of Berlin are praised as containing pieces of priceless value in German silver, bronze, enamel, etc. Senator Clark, according to Herr Bode, paid five times the value of the Preyer collection of paintings he bought in Vienna last year. The Roman collection of alleged masterpieces by Raphael, Titian, Rubens, Correggio, Rembrandt, Perugino, Botticelli and other masters sold to Mr. Walters of Baltimore for a sum said to be nearly a million dollars, is characterized as beneath criticism. The fact that the Italian government, which collects a tax of one-fifth upon the value of all antique works of art sold for export, asked for only \$8,000 upon this Mazzarenti collection is considered as conclusive by Herr Bode, who ends his article by saying that while all the pictures and works of antique art bought by Americans in Europe during the last ten years do not equal in value one such collection as that left recently to Paris by the late M. Dutuit, the effect upon artists has been unfortunate; for when the good work of living men is ignored the inevitable result is either discouragement or a temptation to manufacture "antiquities," to which many painters succumb.—"New York Evening Post."

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

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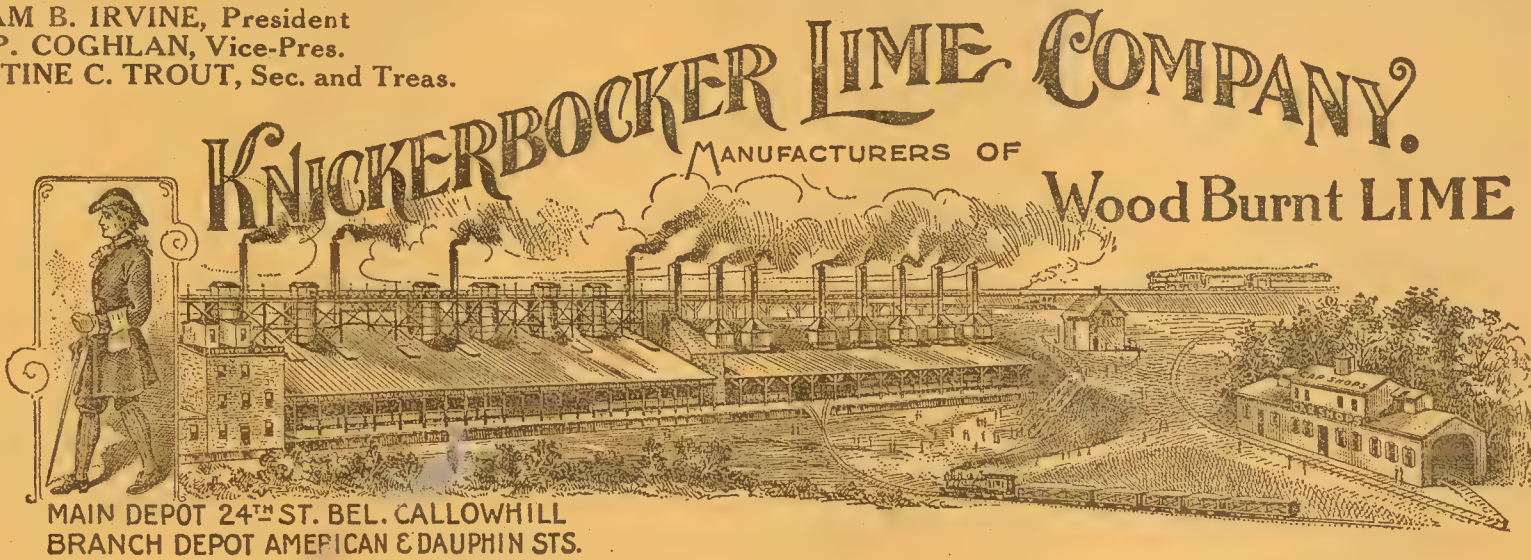
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Vol. XXIX., No. 11.

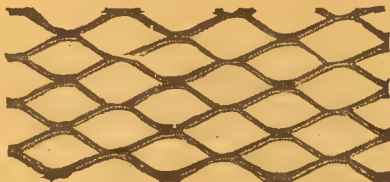
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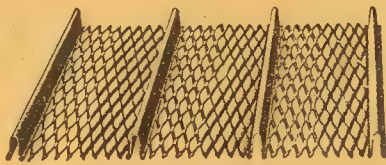


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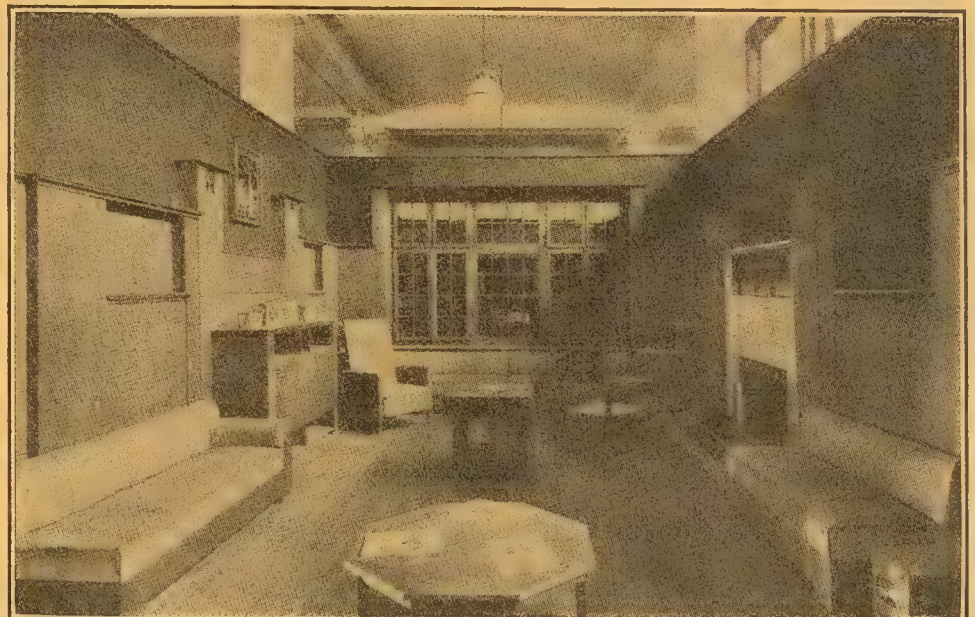
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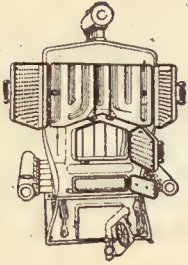
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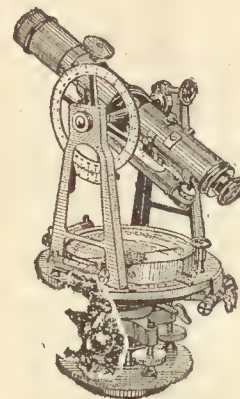
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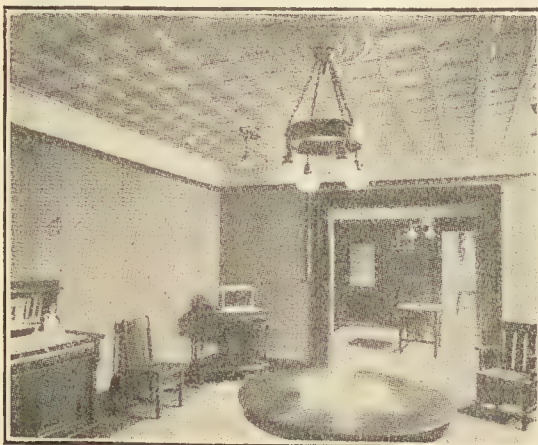


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PHILADELPHIA, WEDNESDAY, MARCH 18, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences and Stores (24), Frankford and Margaret streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William Freihofer, Twentieth street and Indiana avenue. Brick, 2 stories, slag roof, hot-water heating electric lighting. Plans in progress.

Infirmary Building, Ogontz and Cheltenham avenues, Philadelphia. Architects, Furness & Evans, Provident Building. Owner, Odd Fellows' Orphanage, on premises. Brick, fireproof, 2 stories, 48x72 feet, slate roof (central plant, heating and lighting, reserved), water-proofing. Architects have received bids.

Church (alt. and add.), Oak Lane, Pa. Architects, Charles W. Bolton & Sons, Witherspoon Building. Owner, Oak Lane Presbyterian Church, Oak Lane, Pa. Stone, 1 story, 60x140 feet, slate and slag roof (electric lighting and heating, reserved). Architects have received bids.

Residence, Limekiln Pike and City Line. Architect, Leslie Headley, 234 South Sixtieth street. Owner, Robert K. Berryman, care of Wayne Ice Manufacturing Co., 4166 Wayne avenue. Hollow tile and plaster, 2½ stories, 30x40 feet, slate roof, electric lighting, steam heating. Revised plans in progress.

Factory, Ninth and Parrish streets. Architects, William Steele & Sons, Sixteenth and Arch streets. Owners, Powers, Weightman Rosengarten Co., on premises. Concrete, fireproof, 6 stories, 75x75 feet. Plans in progress. Architects will take sub-bids in about one month.

School (add.), Holmesburg. Architect, Henry A. Dagit, 411 Walnut street. Owner, St. Dominic's R. C. Church, Rev. L. J. Wall, Holmesburg. Stone, 2½ stories, 44x86 feet, slate roof, electric lighting (steam heating, reserved), metal ceilings, fire-proofing. Architect taking bids due March 21st. Melody & Keating, Bailey Building; John F. Davies, 1208 Chestnut street; J. A. Hand, 8029 Frankford avenue; C. West & Co., Harrison and Horrocks streets, Frankford, Pa.; Hoffmeier & Sons, Andalusia, Pa.; Specht & Sperry Heed Building, are figuring.

Residence, Germantown, Philadelphia, \$20,000. Architect, Edmund B. Gilchrist, Harrison Building. Owner's name withheld.

Stone, 2½ stories, 100 feet long, roofing, not decided, hot air and hot water heating, electric lighting, hardwood floors. plans in progress.

Stores and Apartments (2), Fifth and Tabor road. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, William C. Runge, 6354 Germantown avenue. Brick, 2 stories, 16x72 feet, slag roof, electric lighting (heat, reserved). Owner has received bids.

Stores (7), Germantown avenue and Venango street. \$15,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Walter Stuenkel, 5508 Germantown avenue. Brick, 1 story, 16x30 feet, slag roof, steam and hot-air heating, electric lighting. Owner has received bids.

Residences and Stores (alt. and add.) (6), 812-822 Columbia avenue. Architect, B. J. Medoff, 524 Walnut street. Owner, Morris L. Miller, Commonwealth Building. Brick, 4 stories, new front, hot water heating, electric lighting. Owner has received bids.

Home (add.), 6713 Woodland avenue. Architect, Frederick Webber, Morris Building. Owner, Chapin Home for Aged Blind, on premises. Brick, 2 stories, 40x32 feet, slag roof, hot-water heating, electric lighting. Architect has received bids.

Garage, Twelfth and Norris streets. Architect, John I. Carmichael, 1520 Fairmount avenue. Owner, I. A. Dione, 2241 North Broad street. Brick, 1 story, 47x80 feet, slag roof (heating, electric work and gasoline tank and pump, reserved). Owner taking bids. The following are figuring: Smith-Hardican Co., 1606 Cherry street, and E. C. Durell, 1713 North Twenty-fourth street.

Flat Houses (29), Twentieth and Venango streets. Architect, Frederick Webber, Morris Building. Owner, name withheld. Brick, 2 stories, pressed bricks, slag and tile roofs, steam heating, electric lighting, parquet floors. Architect is taking sub-bids.

Residence and Garage, Oak Lane, Philadelphia. \$16,000. Architects, Neff & Thames, Heed Building. Owner, name withheld. Stone, plastered, 2½ stories, red slate roof, hot-water heating, electric lighting, hardwood

floors. Plans in progress. Architects will take bids in about two weeks.

Apartment House, Oak Lane. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, Samuel Morrison, 3601 North Fifth street. Brick, 3 stories, 75x100 feet, slate roof, steam heating, electric lighting. Plans in progress.

Church, Westmoreland and G streets. Architects, Henon & Boyle, 10 South Eighteenth street. Owners, Church of the Ascension, on premises. Stone, 1 story, 80x160 feet, slag roof, electric lighting, steam heating. Architect taking revised bids due March 18th. The following are figuring: J. McShain, 631 North Seventeenth street; Melody & Keating, Bailey Building; John McKenna & Sons, 1023 Race street; M. L. Conneen & Co., 315 South Twentieth street; Cunningham & Bartholomew, 4326 Paul street, Frankford, Pa.; D. M. O'Dea, 5219 North Fifth street.

Residence, Green street and Mt. Airy avenue, Germantown. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Mrs. E. B. Klauder, Westview and Wayne avenues. Stone, 2½ stories, 40x69 feet, shingle roof, electric lighting, hardwood floors. Plans in progress. Bids in a few days.

Nurses' Home, Penn and Chew streets, Germantown. Architect, Louis Carter Baker, 34 South Seventeenth street. Owner, Germantown Dispensary and Hospital, on premises. Brick and stone, 4 stories, fireproof, steam heating, electric lighting. Plans about completed. Architect ready for bids in about two weeks.

Picture Theatre, Sharpnack street and Germantown avenue. Architects, Borzner & Wood, 721 Walnut street. Owner, Benjamin Haas, 2008 Germantown avenue. Brick and terra cotta, 1 story, 42x100 feet, slag roof, electric lighting, steam heating. Plans completed. Architects ready for bids.

Stair and Elevator Shaft, Thirty-fifth street and Gray's Ferry road. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Harrison Bros. Co., Thirty-sixth street and Gray's Ferry road. Brick and steel, 3 stories,

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asbestos covered corrugated iron, asphalt floors. Architects have received bids.

Garage, Hottter street and Wayne avenue. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, C. M. Brown, on premises. Stone, 2 stories, 23x42 feet, green slate roof, hot-water heating, electric lighting. Architects taking bids due March 21st. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; W. John Stevens, Wyncote, Pa.; F. B. Davis, 35 South Seventeenth street; W. J. Gruhler, 219 High street; Pringle Borthwick, 8018 Germantown avenue; Frederick Elvidge & Sons, 5522 Germantown avenue.

Furniture and Office Partitions, Drexel Building. Architects, Harris & Richards, Drexel Building. Owners, Drexel Estate, Drexel Building. Electric lighting, lockers. Architects taking bids, due March 18th. George & Borst, 277 South Eleventh street; H. H. Burrell, 1202 Chancellor street; F. B. Davis, 35 South Seventeenth street; A. Raymond Raff, 1635 Thompson street, are figuring.

Toilet Room, 2001 Chestnut street. Owner's name withheld. Architects, Harris & Richards, Drexel Building. Consists of new fixtures, tile work, electric lighting. Architects taking bids, due March 18th. George & Borst, 277 South Eleventh street; William R. Dougherty, 1610 Sansom street; J. Morris Daniels, 252 South Juniper street, are figuring.

Church and School, Twenty-ninth and Allegheny avenue. Architects, E. F. Durang Sons Co., Inc., Twelfth and Chestnut streets. Owners, Corpus Christi R. C. Church, care of Rev. Henry A. Naylor, 2902 West Allegheny avenue. Stone, 1 story, brick and stone, 3 stories. Architects ready for bids in a few days.

Residence, Greene street and Mt. Airy avenue, Germantown. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Mrs. E. B. Carter, Westview avenue and Wayne avenue. Stone, 2½ stories, 40x69 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architects taking bids, due March 23rd. The following are figuring: W. John Stevens, Wyncote, Pa.; R. C. Ballinger & Co., 218 North Thirteenth street; A. L. Fretz & Sons, 1222 Chancellor street; F. B. Davis, 35 South Seventeenth street; W. C. Wright, 22 Harvey street; M. S. Oberholtzer, 5524 Pulaski avenue.

Factory and 17 Stores., northwest corner Broad and South streets. Architects, Sauer & Hahn, 1114 Chestnut street. Owners, R. & F. P. Jacobs, 1427 Catharine street. Brick, concrete and steel, 3 stories, 122x198 feet, slag roof, steam heating, electric lighting, elevators. Plans in progress. Architects will take bids in about three weeks.

Picture Theatre, North Philadelphia, \$6,000. Architects, Durham Brothers, Heed Building. Owner's name withheld. Brick, 1 story, 30x100 feet, slag roof, steam heating, electric lighting. Plans in progress.

Garage, Oak Lane, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street. Owner's name withheld. Stone and frame, 1½ stories, 20x24 feet, shingle roof, hot water heating, electric lighting. Architect taking revised bids, due March 20th. The following are figuring: Specht & Sperry, Heed Building; John H. Dagny, Oak Lane; John Morrow, Oak Lane; C. L. Hemmerly, Oak Lane; Fesmire & Mitchell, Glenside, Pa.; Thomas Mathews & Sons, 2236 North Hancock street.

Office Building, 1701-03-05 Arch street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Board of Home Missions and Church Extension, 1026 Arch street. Stone, brick, terra cotta, 6 stories, 60x114 feet, slag roof (heat and light reserved), fireproofing, concrete and hollow tile dampproofing, waterproofing, metal lath, metal partitions, metal frames and sash, elevators. Architects taking bids, due March 24th. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Doyle & Co., 1519 Sansom street; H. L. Brown, 1714 Sansom street; Cramp & Co., Denekla Building; George A. Fuller Company, Morris Building; James G. Doak & Co., Crozer Building; H. E. Baton, Twelfth and Sansom streets; Harrison C. Rea, 1027 Wood street; J. Myers & Sons Co., Witherspoon Building; J. E. & A. L. Pennock, Land Title Building.

Slaughter House, Thirty-first and Euclid avenue. Architect, B. J. Medoff, 524 Walnut street. Owner, Alex. Lischinsky, on premises. Brick, 2 stories, 18x16 feet, slag roof. Plans in progress.

Residence and Store, 2840 Richmond street. Architect, B. J. Medoff, 524 Walnut street. Owner, Abraham Schatz, on premises. Brick, 2 stories, 16x80 feet, slag roof, vapor vacuum

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heating, electric lighting. Architect taking bids, due April 1st. M. Miron, Fourth and Wharton streets; Fred Suate, 1326 Snyder avenue; Louis Cohen, 417 Christian street, are figuring.

Flat Houses (2), Washington lane and Chew street, Germantown. Architect, private plans. Owner, Edw. T. Lalley, 852 East Woodlawn street. Brick, 2 stories, 36x67 feet, slag and tile roof, hot water heating, electric lighting, hardwood floors. Owner taking sub-bids on all lines.

Loft Building, Thirteenth and Cherry streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Louis Biberman & Bro., 240 Market street. Brick and terra cotta, 8 stories, 46x121 feet. Architects taking bids, due March 21st, on elevators, heating, plumbing, electrical work and sprinklers. Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; William R. Dougherty, 1610 Sansom street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Fifteenth and Mellon streets. \$10,500. Architect, George S. Idell, 34 South Sixteenth street. Owner, B. F. Dewees, 1122 Chestnut street. Brick, 2 stories, 61x65 feet, slag roof, electric lighting, steam heating, gasoline storage. Contract awarded to J. Myers & Sons Co., Witherspoon Building.

Ice Storage House (add.), 1952 North Phillips street. \$2,000. Architect, private plans. Owner, Mahlon A. Young, American and Berks streets. Brick, 2 stories, 14x47 feet, slag roof. Contract awarded to P. Haibach Construction co., Twenty-sixth and Thompson streets.

Pier (add.), 10 and 11 South Wharves, Delaware River. \$40,000. Engineer, Department of Maintenance of Ways, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station. Steel and wood, 2 stories, 105x176 feet, slag roof, steam heating, electric lighting, composition floors.

Contract awarded to Armstrong & Latta, Land Title Building.

Residence, Oak Lane, Pa. Architect, private plans. Owner, John H. Scribner, Oak Lane, Pa. Plaster, 2½ stories, slate roof, hot-water heating, electric lighting. Contract awarded to C. L. Hemmerly, Oak Lane, Pa., who is taking sub-bids.

Y. W. C. A., Allegheny avenue and Hancock street. Architects, Hewitt & Granger, Bullitt Building. Owners, Y. W. C. A., Eighteenth and Arch streets. Brick and terra cotta, fireproof, 3 stories, 30x114 feet, slate and slag roof (heating and lighting reserved), elevators, dampproofing, waterproofing, metal frames and sash, metal trimmings and doors, kalamein work, hollow tile and gypsum block enamel brick. Contract for the Hoffman Memorial of the Y. W. C. A. awarded to Charles Gilpin, Harrison Building.

PENNSYLVANIA

Construction News

Residences (3), Sixteenth and Walnut streets, Allentown, Pa. \$22,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, John Boroski, Allentown, Pa. Brick and stucco, 2½ stories, 52x70 feet, tile roof, hot-water heating, combination lighting, hardwood floors. Plans in progress.

School (alt. interior), Pen Argyl, Pa. \$8,000. Architect, E. H. Wenzelberger, Easton, Pa. Owner, School Board, Pen Argyl, Pa. Consists of new heating system. Plans in progress.

Art Gallery, Chester, Pa. \$50,000. Architects, Brazer & Robb, 1133 Broadway, New York City. Owner, Estate of Alfred O. Deshong, Chester, Pa. Stone and marble, 1 story, 50x90 feet, steam heating, electric lighting. Plans about completed. Architects will take bids in a few days.

Residence, College Hill, Easton, Pa. \$8,000. Architect, William M. Michler, Easton, Pa. Owner, W. W. Bryan, Easton, Pa. Brick, 2½ stories, 50x30 feet, slate roof, hot-air heating, electric lighting, hardwood and tile

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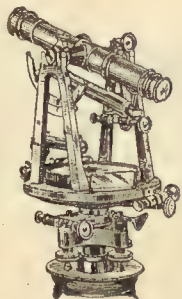
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floors. Plans completed. Ready for bids.

Residence, College Hill, Easton, Pa. \$10,000. Architect, William M. Michler, Easton, Pa. Owner, J. P. Kinsey, Easton, Pa. Brick and stucco, 3 stories, 40x50 feet, slate roof, hot-air heating, electric lighting, tile and hardwood floors. Plans completed. Ready for bids.

Garage, Langhorne, Pa. \$2,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Ellwood W. Watson, Langhorne, Pa. Stone, 1 story, 20x40 feet, slate roof, hot-water heating, electric lighting. Owner is taking bids.

Home, Elizabethtown, Lancaster County, Pa. Owner, F. and A. M. of Berks County, care of F. A. Marx, Reading, Pa. Stone, fire-proof, 3 stories 59x33 feet, slate roof, gypsum block, partitions, metal lath, electric lighting (heating, reserved). Architect taking bids due March 31st. F. Roe Searing, Perry Building, Philadelphia, is figuring.

School, Chambersburg, Pa. Architect, James W. Miller, Chambersburg, Pa. Owner, Thaddeus Stevens School, care of J. S. Sellers, Secretary, Board of Education, Chambersburg, Pa. Brick and stone, 2 stories and basement, 96x96 feet, slate roof (electric lighting and steam heating, reserved). Owners taking bids due March 26th. F. Roe Searing, Perry Building, Philadelphia, is figuring.

Schools (2), Darby, Pa. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, Board of Education, Darby, Pa. Brick and stone, 2 stories, 24x79 feet and 30x70 feet, slate roof, steam heating, electric lighting, fire-proofing.

Residence, Haverford, Pa. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Robert Meade Smith, Jr., 1001 Chestnut street, Philadelphia. Stone and timber, 2½ stories, shingle roof (heating and electric work, reserved). Revised plans in progress.

Residence, Bryn Mawr, Pa. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Barent W. Van Kleeck, 6613 Emlen street, Germantown, Philadelphia. Stone and rough cast, 2½ stories, 65x58 feet, shingle roof, hot-water heating, electric lighting, oak floors. Architects, taking bids due March 23rd. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; R. C. Ballinger & Co., 218 North Thirteenth street; F. B. Davis, 35 South Seventeenth street, Philadelphia, and George Croll, Rosemont, Pa.; Gray Bros., Rosemont, Pa.; W. John Stevens, Wyncote, Pa.

Church (alt. and add.), Llanerch, Pa. Architect, Frank A. Hayes, 1524 Chestnut street, Philadelphia. Owner, St. Andrew's M. E. Church, on premises. Store, 1 story, tin roof, electric lighting. Plans in progress. Owners will take bids.

Barn and Garage, Meadowbrook, Pa.

Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, William E. Weber, 509 South Tenth street. Stone and pebble dash, 1½ stories, shingle roof, electric lighting. Owner has received bids.

Carriage Shed and Barn (alt. and add.), Ambler, Pa. Architect, A. F. Schenck, Real Estate Trust Building, Philadelphia. Owner, J. W. Miller, Ambler, Pa. Hollow tile and plaster, 1½ stories, 28x36 feet, shingle roof, electric lighting. Architect taking bids, due March 19th. J. B. Flounders, 1329 Arch street, Philadelphia, only bidder.

Church and School, Darby, Pa. Architects, E. F. Durang & Sons Co., Inc., Twelfth and Chestnut streets, Philadelphia. Owners, Blessed Virgin R. C. Church, care of Rev. William A. Fitzgerald. Stone, 2½ stories, 78x96 feet, slate roof (heat and light reserved). Architect taking bids, due March 20th. The following are figuring: I. T. Shoemaker, 6910 Mower street, Germantown; G. W. Riley, Lansdowne, Pa.; John McShain, 631 North Seventeenth street; Monaghan & Losse, 214 South Twelfth street; D. W. O'Dea, 5219 North Fifth street; W. J. McShane, 417 South Thirteenth street; J. Myers & Sons Co., Witherspoon Building; M. L. Conneen, 315 South Twentieth street; A. Whitehead, Inc., 1624 Latimer street; H. E. Baton, Twelfth and Sansom streets; J. J. Murphy, 4034 Powelton avenue; William R. Dougherty, 1610 Sansom street, all of Philadelphia.

Power House, Norristown, Pa. Architect and engineer, J. A. Crisfield, care of U. G. I. Co., Broad and Arch streets, Philadelphia. Owners, Counties Gas and Electric Company, care of U. G. I., Broad and Arch streets, Philadelphia. Brick, steel and concrete, 2 stories, 72x99 feet, slag roof, asbestos partitions, steel sash and frames. Owners taking bids, due March 30th. George & Borst, 277 South Eleventh street, and James G. Doak & Co., Crozer Building, Philadelphia, are figuring.

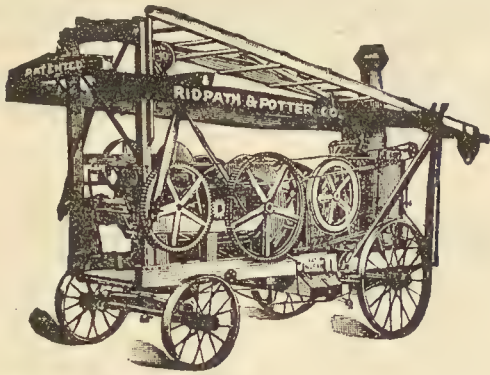
Residences, Jenkintown, Pa. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, W. John Stevens, Wyncote, Pa. Stone and frame, 2½ stories. Plans in progress.

Residence (alt. and add.), Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, George J. Costello, Bethlehem, Pa. Stone and frame, 3 stories, hot water heating, electric lighting, tiled bath rooms, parquet floors. Owner is ready for bids.

Residence (alt. and add.), near Malvern, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Walter F. Klemm, 1326 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stories, shingle roof, electric lighting, hardwood floors, hot water heating. Owner is taking bids. The following are figuring: A. M. Hall, Paoli, Pa.; Walter J. Burkey, Duffryn Mawr, Pa.; Charles F. Rimel, Malvern, Pa.

Residence, Lansdale, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner's name withheld. Plaster, 2½ stories, 35x60 feet, tile roof, warm air heating, electric lighting, hardwood floors. Plans in progress. Bids in about one week.

Home, Elizabethtown, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, F. and A. M. of Berks County, care of F. A. Marx, Reading, Pa.



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Stone, fireproof, 3 stories, 59x33 feet, slate roof, fireproof partitions, metal lath, electric lighting (heating reserved). Architect taking bids, due March 31st. The following are figuring: D. H. Hunter, 820 North Eleventh

street, Reading, Pa.; J. B. Trexler, 165 West Windsor street, Reading, Pa.; C. H. Schlegel, Mt. Penn, Pa.; Adam P. Spatz, Wernersville, Pa.; F. Roe Searing, Perry Building, Philadelphia.

PENNSYLVANIA

Contracts Awarded

Dining Room and Dormitory, Elwyn, Pa. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Pennsylvania Training School for Feeble Minded Children, Elwyn, Pa. Stone, 2 stories, 35x70 feet, slate roof, steam heating, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

School, Steelton, Pa. \$25,000. Architect, Charles Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Steelton, Pa. Brick, 2 stories and basement, 43x100 feet, slag roof (light and heat, reserved), iron doors and frames, steel rolling partitions. Contract awarded to Berry-Goodwin Co., Drexel Building, Philadelphia.

Store and Apartment House, Ardmore, Pa. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Primrose Folwer Shop, Ardmore, Pa. Brick and frame, 3 stories, shingle roof, steam heating, electric lighting. Contract awarded to E. T. Spencer, Ardmore, Pa.

Residence, Latham Park, Pa. \$12,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, William L. Elkins' Estate, Land Title Building, Philadelphia. Stone and plaster, 2½ stories, 28x40 feet, wing 14x27 feet, shingle roof, hot-water

heating, electric lighting, hardwood floors. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Hospital, Scranton, Pa. Architect George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St. Mary's Keller Memorial Hospital, Scranton, Pa. Brick and plaster, fireproof, 2 stories and basement, 64x109 feet, slag roof, mackite partitions (heating and lighting, reserved). Contract awarded to J. Beilman & Sons, Scranton, Pa.

Garage, Haverford, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Horace H. Lee, Stock Exchange Building. Stone, 2 stories, 25x39 feet, shingle roof (heating and electric lighting, reserved). Contract awarded to John E. Kearney, 327 North Sixty-third street, Philadelphia.

Residences (4), Latham Park, Pa., \$50,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, Estate of William L. Elkins, Land Title Building, Philadelphia. Stone and frame and rough cast, 2½ stories, slate, shingle and tile roofs, hot water heating, electric lighting, hardwood floors. Contract awarded to John Morrow, Ninth and Oak Lane avenue, Oak Lane, Philadelphia.

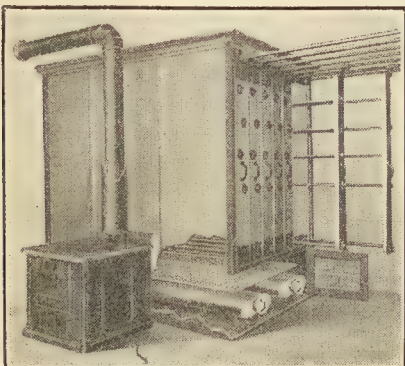
NEW JERSEY

Construction News

Orphan Asylum, Hopewell, N. J. \$40,000. Architect, W. P. Endebrock, American Mechanics Building, Trenton, N. J. Owner, St. Michael's Orphan Asylum, care Rev. James A. McFaul, 153 North Warren street, Trenton, N. J. Brick and terra cotta, 4 stories, 48x93

feet, slag, roof, steam heating, electric lighting, metal lath, hollow tile and concrete fireproofing. Architect ready for bids.

Children's Home, Trenton, N. J. \$40,000. Architect, W. P. Endebrock, American Mechanics Building, Trenton, N. J. Owner, R. C.



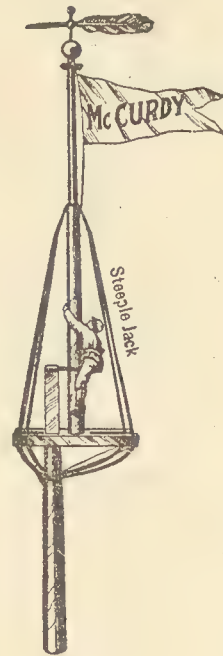
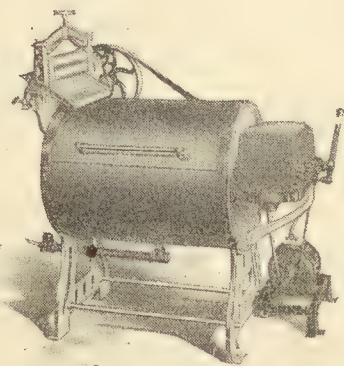
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BOSTON

CHICAGO

Church, Trenton Diocese, care Rev. James A. McFaul, 153 North Warren street, Trenton, N. J. Brick, stone and concrete, 3 stories, slag and slate roof, steam heating, electric lighting. Architect ready for bids.

Hospital and Cottage, Vineland, N. J. \$25,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, New Jersey Training School, Vineland, N. J. Hollow tile and stucco, 2 stories, 95x120 feet, slag roof, electric lighting, steam heating. Owners taking revised bids due March 20th. The following are figuring: Alexander Chamberley, 243 South Tenth street, Philadelphia; Henry L. Brown, 1714 Sansom street, Philadelphia; D. E. Boyer & Co., 523½ Arch street, Camden, N. J. Peterson Construction Co., Clayton, N. J.

Church (alt. and add.), Haddonfield, N. J. \$10,000. Architect, W. C. Prichett, 416 Walnut street, Philadelphia. Owner, Grace Episcopal Church, Haddonfield, N. J. Stone and brick, 2 stories, 40x86 feet, slate roof, extension to heating plant, electric lighting. Plans in progress. Architect will take bids in about one month.

Club House, Lambertville, N. J. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Loyal Order of Moose, Lambertville, N. J. Brick, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

School, Ewing Township, \$15,000. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owners, Board of Education, care of F. C. Leaming, State and Warren streets, Trenton, N. J. Brick, 2 stories. Owners received bids March 16th.

Residence, Merchantville, N. J. Architects, Shore & Dodge, 608 Chestnut street, Philadelphia, Pa. Owners, Mrs. S. G. Rudderow, Merchantville, N. J. Frame and stucco, 2½ stories. Plans in progress.

Picture Theatre and Stores, Chelsea, N. J. Architect, M. H. Dickinson, 1524 Chestnut street, Philadelphia. Owners, Kahn & Greenberg, Morris Building, Philadelphia. Brick and terra cotta, 1 story. Plans in progress.

Factory (add.), Trenton, N. J. \$4,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Trenton Porcelain Co., 803 East State street,

Trenton, N. J. Brick, 2 stories, 70x25 feet, slag roof, concrete floors. Architects ready for bids.

Hotel (alt. and add.), Atlantic City, \$40,000. Architect, Seward G. Dobbins, City Square, Theatre Building, Atlantic City. Owner, Mrs. E. Groogan, 138 South Tennessee avenue, Atlantic City. Brick, 5 stories, 50x75 feet, slag and asbestos shingle roof, steam heating, electric lighting. Architect taking bids, due March 20th. The following are figuring: W. Beaumont, 12 South Tennessee avenue; E. Elsworth Smith, 2809 Fairmount avenue, and Charles S. Corson, all of Atlantic City.

Apartment House and Stable, Massachusetts and Atlantic avenues, Atlantic City, \$9,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City. Owner, J. R. Rath, Atlantic City. Brick, 2 and 3 stories, 20x30 feet and 30x70 feet, enameled brick front, red tile roof, hot water heating, electric lighting. Architect taking bids, due March 20th. The following are figuring: Thompson Brothers, 14 South Ohio avenue; C. P. Tilton, 9 South Pennsylvania avenue; P. Hannum, 16 North Georgia avenue; Taylor & Son, Bartlett Building; G. B. Pearson, all of Atlantic City.

Bungalows (60), Cape May, N. J. Architect, J. R. Ogden, Bartlett Building, Atlantic City, N. J. Owner, J. D. Ogden, 1017 Betz Building, Philadelphia. Frame 1 story, 26x42 feet each, asbestos shingle roofs, gas and electric lighting. Owner is taking bids.

Stores and Apartments (alt. and add.), Atlantic City, N. J., \$20,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, I. Aaron, Connecticut avenue, Atlantic City. Brick, 3 stories, 75x100 feet, slag roof, hot water heating, electric lighting. Architect taking bids, due March 20th. The following are figuring: Harry Scull, Sheen Building; Charles S. Corson, W. Beaumont, 12 South Tennessee avenue; E. Elsworth Smith, 2809 Fairmount avenue, all of Atlantic City.

Bungalow, Ventnor, N. J., \$4,000. Architect, B. Ireland, Bartlett Building, Atlantic City. Owner, Herbert Allen, Freight Department A. C. R. R. Co., Atlantic City, N. J. Frame, 1½ stories, 26x42 feet, tile roof, hot water heating, gas and electric lighting. Owner is taking bids.

Architect, Edward L. Tilton, 32 Broadway, New York City. Owners, City of Trenton. Stone, 2 stories, 75x30 feet, slag roof, steam heating, electric lighting. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

MISCELLANEOUS CONSTRUCTION NEWS

Residence, Wilmington, Del. \$6,000. Architect, J. J. Kennedy, Ford Building, Wilmington. Owner, James O'Hara, 211 Madison street, Wilmington, Del. Tapestry brick, 2½ stories, 25x40 feet, tin and slate roofing, hot-water heating, electric lighting, hardwood floors. Architect has received bids.

Residence (alt. for store), 624 North Ninth street, Wilmington. \$1,000. Architect, R. C. Tindall, Equitable Building, Wilmington. Owner, Michael, Pennette, on premises. Brick, 1 story, 18x22 feet, new bulk windows. Architect has received bids.

Church, Syracuse, N. Y. Architects, Brazer & Robb, 1133 Broadway, New York City. Owner, Trinity Church, Syracuse, N. Y. Stone, 1 story, 52x245 feet, slate roof, electric lighting (heat, reserved), marble interior, composition floors, water-proofing, concrete, hollow tile and expanded metal fire-proofing. Architect taking revised bids due March 28th. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

Theatre, Baltimore, Md. Architect, T. W. Lamb, 644 Eighth avenue, New York City. Owners, Pearce & Scheck, Baltimore, Md. Brick, steel and terra cotta, fireproof, 1 story, 108x141 feet, slag roof (heat and light, reserved), metal doors, metal lath, dater-proofing and damp-proofing, Fenestra sash and kalamein doors. Architect taking bids (revised) due March 20th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Factory, Wilmington, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owners, J. H. Way Co., Twenty-third and Arch streets, Philadelphia. Reinforced concrete, 6 stories. Plans in progress.

Bottling House, Utica, N. Y. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia, Pa. Owner, Eagle Brewing Co., Utica, N. Y. Brick, concrete and terra cotta, 2 stories, 45x105 feet, slag roof, steam heating, electric lighting, elevator, iron railings, cement and tile floors. Owners taking bids.

Residence, Claymont, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owner, William G. Robelen, 623 Shipley street, Wilmington, Del. Hollow tile and plaster, 3 stories, 40x40 feet, shingle roof, steam heating, electric lighting, hardwood floors. Contract awarded to J. E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Residence, 1800 Jefferson street, Wilmington, Del. Architects, E. L. Rice, Jr., & Co., 817 Market street, Wilmington, Del. Owner, Samuel H. Baynard, 309 West Eighteenth street, Wilmington, Del. Port Deposit granite, 2½ stories, 30x40 feet, red slate roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to J. E. Healey & Son, 707 Tatnall street, Wilmington, Del.

Residence, "Lee Haven Farm," near Easton, Md. \$6,500. Architects, Brinckloe & Canning, Easton, Md. Owner, P. K. Wright, Easton, Md. Brick, 3 stories, 43x23 feet, shingle roof, vapor heating, gas lighting, hardwood floors. Architects taking bids.

Residence (alterations), "Sunset Farm," near Easton, Md. \$11,000. Architects, Brinckloe & Canning, Easton, Md. Owner, C. T. Lipscomb, Columbia, S. C. Frame and plaster, 3 stories, 100x37 feet, shingle roof, hot-water heating, gas and electric lighting, hardwood floors. Architects taking bids.

Town Hall, Sudlersville, Md., \$5,000. Archi-

NEW JERSEY

Contracts Awarded

Bridge, Absecon, N. J. \$4,700. Engineer, A. H. Nelson, Atlantic City, N. J. Owner, Atlantic County Commission, Atlantic City, N. J. Steel and concrete. Contract awarded to Berry-Goodwin Co., Drexel Building, Philadelphia.

Factory (add.), Trenton, N. J. \$10,000. Architect, J. O. Hunt, 206 East Hanover street, Trenton, N. J. Owner, L. Albert & Son, North Olden avenue, Trenton, N. J. Brick and steel, 1 and 2 stories, slag roof. Contract awarded to Lewis' Levy & Sons, Trenton, N. J.

Chapel, Avalon, N. J. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, St. John's by the Sea P. E. Church, Avalon, N. J. Frame and plaster, 1 story, 30x60 feet, shingle roof, electric lighting. Contract awarded to Levi Wentzel, Avalon, N. J.

Residence and Garage, Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Harry Stille, Woodbury, N. J. Frame, 2½ stories, shingle roof, hot-air heating, electric lighting, hardwood floors. Contract awarded to J. B. Best, Woodbury, N. J.

Storehouse and Platform, Camden, N. J.

Engineer, William Hunter, Reading Terminal, Philadelphia. Owners, Atlantic City Railroad Company, Camden, N. J. Brick, 1 story, 20x48 feet, concrete platform, 10x56 feet, slag roof, waterproofing. Contract awarded to Charles Gilpin, Harrison Building, Philadelphia.

Club House, Absecon, N. J., \$100,000. Architect (associated-), Frank Seeburger, Pennsylvania Building, and Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Seaview Golf Club, care of C. H. Geist, President, Land Title Building, Philadelphia. Brick and plaster, 2½ stories, 80x200 feet, green slate roof (steam heating reserved), electric lighting, hardwood floors, dampproofing and waterproofing, enameled bricks. (Plumbing and electric work reserved.) Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Cottage, Ventnor, N. J., \$5,000. Architect, J. Vaughn Mathis, Bartlett Building, Atlantic City. Owners, Pennsylvania Medical Missionary Society, care of Mrs. Haskell, Merion, Pa. Frame, 2 stories, 24x30 feet, slate roof, hot water heating, electric lighting. Contract awarded to J. Mathis & Son, Bartlett Building, Atlantic City, N. J.

Library (add.), Trenton, N. J., \$50,000.

fects, Brinckloe & Canning, Easton, Md. Owner, Town of Sudlersville, Md. Frame, 2 stories, 80x32 feet, asbestos shingle roof, steam heating, acetylene gas lighting plant, concrete and wood floors. Owners taking bids.

Residence, Denton, Md. \$12,000. Architects, Brinckloe & Canning, Easton, Md. Owner, T. Alan Goldsborough, Denton, Md. Brick and plaster, 3 stories, 47x33 feet, Spanish tile roof, hot-water heating, electric lighting, hardwood floors. Plans completed. Ready for bids.

Court House (alt. and add.), Georgetown, Del. \$31,000. Architects, Brinckloe & Canning, Easton, Md. Owner, Sussex County Commissioners, Georgetown, Del. Brick, 2 stories, 98x30 feet, asbestos roof, hot-water heating, electric lighting, concrete and wood floors. Builder, George E. Lane, Queens-town, Md.; work started.

Post Office, Mobile, Ala. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Stone, terra cotta and stucco, 2 stories, fireproof, copper and tile roof, electric lighting, steam heating. Sealed proposals will be received until April 16th, 3 P. M.

Post Office, Tarboro, N. C. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Stone and steel, semi-fireproof, 2 stories, tin roof, steam heating, electric lighting. Sealed proposals will be received until April 15th, 3 P. M.

Science Building, Ann Arbor, Mich. Architect, Albert Kahn, Detroit, Mich. Owners, University of Michigan, Ann Arbor, Mich. Concrete, brick and terra cotta, 4 stories, 254 x 278 feet, composition roof (heat and light reserved), asphalt floors, dampproofing, waterproofing, metal lath, steel sash and frames, kalamein work, elevators. Architect taking bids, due March 27th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Post Office, Camden, S. C. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Stone and stucco, 1 story, tin roof, electric lighting. Steam heating. Sealed proposals will be received until April 21st, 3 P. M.

Philadelphia Steel & Forge Co. (O), Milnor and Bleigh streets. Cost, \$1,200. Mill.

Harrison Bros. & Co. (O), Thirty-fifth street and Gray's Ferry Road. Barclay White & Co. (C), Perry Building. Cost, \$1,500. Manufacturing Building, Thirty-fifth street and Gray's Ferry road.

W. T. Maltey (O), 4605 Frankford avenue. John Fatheringham (C), 3667 Frankford avenue. Cost, \$1,100. Dwelling, 4605 Frankford avenue.

Weightman Estate (O), 1524 Chestnut street. J. Tulley (C), 1931 Market street. Cost, \$2,000. Dwelling, 1420 Girard avenue.

University Hospital (O), Thirty-fourth and Spruce streets. F. J. Treston (C), 2343 North Twenty-second street. Cost, \$2,000. Hospital, Thirty-fourth and Spruce streets.

S. Stiner (O), 851 North Fifth street. C. Finkelstein (C), 515 Jackson street. Cost, \$3,600. Theatre, 1515 South Fifty-fifth street.

Lipshitz & Wassel (O), Seventh street and Girard avenue. L. Baker (O), 1540 North Sixth street. Cost, \$2,000. Dwelling and store, 912 North Marshall street.

St. Joseph's College (O), Seventeenth and Stiles streets. Thomas Reilly (C), 1616 Thompson street. Cost, \$2,500. College, Seventeenth and Stiles streets.

Philadelphia Baseball Park (O), Broad street and Lehigh avenue. Burd P. Evans Co. (C), Thirteenth and Wallace streets. Cost, \$1,000. Wall, Broad street and Lehigh avenue.

O. Albenchlesen (O), 2927 Taney street. L. Coplan (C), 1623 South Eighth street. Cost, \$1,125. Dwelling and store, Twenty-seventh and Somerset streets.

Weil & Sattler (O), Real Estate Trust Building. A. Warshowsky (C), 543 North Seventh street. Cost, \$3,000. Store and dwelling, Eleventh street and Lindley avenue.

City of Philadelphia (O), 1022 Greenwich street. A. McClintock (C), 1937 Ridge avenue. Cost, \$1,850. School, 1022 Greenwich street.

Fillips latest (O), 424 North Sixty-fourth street. T. Kennedy & Sons, 319 North Sixty-fourth street. Cost, \$1,120. Dwelling and store, 424 North Sixty-fourth street.

E. M. Flood, 2006 Mount Vernon street. Cost, \$1,125. Dwelling, 205 North Twentieth street.

John Wyeth & Bros. (O), Eleventh street and Washington avenue. Ketcham & McQuade (C), 1029 Brown street. Cost, \$2,000. Factory, Eleventh street and Washington avenue.

C. Koch (O), Swanson and McKean streets.

\$60,000 SCHOOL COMPETITION.

The Board of Education of Vineland, N. J., invite competitive plans for a vocational school building to be built at Vineland. An appropriation of \$60,000 has been made for above building. Address Edgar R. Jones, Decker Block, Vineland, N. J., for all information.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Felt Amusement Co. (O), Fifty-second street and Girard avenue. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$22,000. Theatre, brick, 1 story, 65x90 feet, Fifty-second and Locust streets.

Carl Metz (O), 441 West Cayuga street. Cost, \$2,000. Dwelling, brick, 2 stories, 13x34 feet, Lawrence and Ruscomb streets.

M. Young (O), 1950 North Philip street. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$1,700. Warehouse, brick, 2 stories, 14x47 feet, 1952 North Philip street.

M. Kenin (O), 820 South street. Gehman & Chaffin (C), 704 Hoffman street. Cost, \$3,710. Store and dwelling, brick, 3 stories, 17x40 feet, 732 South Fourth street.

J. W. Shissler (O), 2514 South Broad street. Cost, \$2,000. Store and dwelling, brick, 2 stories, 16x46 feet, Atlantic and Jasper streets. Cost, \$2,000. Store and dwelling. Cost, \$2,000. Store and Dwelling. Cost, \$3,000. Two dwellings. Cost, \$9,000. Six dwellings. Cost, \$10,800. Eight dwellings.

M. Katz (O), 524 South Ninth street. A. P. Luckner (C), 5146 Parkside avenue. Cost, \$3,376. Dwelling, brick, 3 stories, 16x55 feet, 1318 Bainbridge street.

J. W. Mortimer (O), 3024 E street. Cost, \$18,000. Ten dwellings, brick, 2 stories, 13x21 feet, Ontario and Emerald streets. Cost, \$37,800. Twenty-one dwellings.

Park & Weild (O), Second and Ritner streets. Cost, \$4,800. Four dwellings, brick,

2 stories, 16x35 feet, Front and Gladstone streets. Cost, \$4,800. Four dwellings. Cost, \$25,000. Twenty-five dwellings. Cost, \$25,500. Twenty-five dwellings. Cost, \$25,000. Twenty-five dwellings. Cost, \$25,000. Twenty-five dwellings.

G. V. Simon (O), 1025 Gilham street. Cost, \$2,000. Dwelling, brick, 3 stories, 15x30 feet, Unruh and Bingham streets.

George Crisp (O), 3025 Roser street. J. A. Owens (C), 1820 East Thayer street. Cost, \$1,000. Dwelling, brick, 2 stories, 14x37 feet, 3023 Riser street.

Hilton Dyer Finishing Co. (O), 2712 Jasper street. G. H. Thirsk (C), 2739 Jasper street. Cost, \$18,000. Manufacturing building, brick, 2 stories, 102x145 feet, 2712 Jasper street.

C. H. Gaskill (O), 4513 Hedge street. Cost, \$6,500. Five dwellings, brick, 2 stories, 15x29 feet, Berkshire street and Torresdale avenue. Cost, \$1,500. Dwelling.

H. B. Boorse (O), 665 North Fifteenth street. Cost, \$4,800. Two dwellings, brick, 2 stories, 16x39 feet, Second street and Olney avenue.

J. Flood (O), H and Fanshawe streets. M. Sterns (C), 922 Margaret street. Cost, \$4,400. Two dwellings, brick, 3 stories, 15x22 feet. H and Fanshawe streets.

Y. W. C. A. (O), Germantown. W. J. Gruhler (C), 219 High street. Cost, \$58,000. Association building, 3 stories, 75x396 feet, 5820 Germantown avenue.

Alterations and Additions

Theo. Miller (O), Fourth and Cambria streets. Bushnell Bros. (C), 2246 North Fifth street. Cost, \$900. Club, Second street and Lehigh avenue.

Peter Zendell (O), 2014 North Twenty-first street. J. Walter (C), 638 Linwood avenue. Cost, \$1,200. Apartments, 2014 North Twenty-first street.

J. Sellhem (O), 1219 North Thirteenth street. Joseph Bird Co. (C), 213 North Eleventh street. Cost, \$4,600. Dwelling, 1227 Girard avenue.

Gross & Lubin (O), 533 South street. Kay Construction Co. (C), 303 Betz Building. Cost, \$1,350. Store and dwelling, 533 South street.

NEED OF SKILLED WORKMEN IN BUILDING TRADES

The American architect is handicapped almost fatally by the lack of good artificers to work out the detail of his plans, is the opinion held by Ralph Adam Cram, consulting architect of the Cathedral of St. John the Divine. The blame is placed largely upon our school system, which does not educate craftsmen and upon those labor unions that discourage the spirit of emulation. Mr. Cram's views are expressed in a paper which was read by him before the fourth annual convention of the American Federation of Arts. He tells of a member of the Committee of Education of the American Institute of Architects, who was asked to give a list of artist-craftsmen competent in design and execution and willing to work with due regard to the architectural environment of their products. His report was that there were two Americans who were doing well as beginners in stained glass, but that it would be safer to go to England, where the ancient tradition in design and workmanship still maintains in a measure. He named two good sculptors in wood—one a Bavarian and one a German—one admirable iron worker and two architectural sculptors.

"Nearly all our expert labor in the artistic trades," says Mr. Cram, "is imported from Europe. We pay large wages to foreign workmen but refuse to educate our own people so that this financial benefit may accrue to them. In other words, our prosperity results in benefiting the alien, and we allow our citizens to degenerate, furnishing no new employment for the rising generation, but fitting it only to those limited callings which already are overstocked, and in which it can command but a minimum wage.

"Every architect knows that the success or failure of his work depends largely on the craftsmen who carry it out and complete it with all the decorative features of form and color, and yet in a nation of 100,000,000 people, with a dozen schools of architecture, practically nothing is done toward educating these same craftsmen, and we either secure the services of foreign-trained men, accept tenth-rate native work, or go without.

"Take a case in point; it is decided to build a metropolitan cathedral with little regard to cost; plans are made (we will say satisfactorily), what then? If it is to be a great and comprehensive work of art it needs (an exactly as much as it needs its architect) sculptors, painters, carvers in wood and stone, glass-makers, mosaicists, embroiderers, leather workers. Are there enough schools in America to train all the craftsmen needed on this one monument—if so, where

"One of the foolish arguments against Gothic is that it is quite dependent on the artist-craftsman, and as we have none, we must abandon the style; one of the foolish arguments in favor of classical design is

that anybody can learn to carve an acanthus, therefore we had better stick to what we know we can do. Neither argument is sound; if we have no artist-craftsmen then it would be better for us to close up half the schools that are turning out architects and employ the funds for the training of the only men who can give life to the architect's designs."

Mr. Cram says that in the good old days every bit of sculpture, painting, carving, metal work, joinery and glass and needle work, enhanced the architecture, glorified it and sometimes redeemed it as well.

"Now," he continues, "either our carving is butchered, our sculpture and painting conceived on lines that deny their architectural setting, our metal work turned out by the commercial ton, our stained-glass work defiant of every law of God, man or architect, or it is all reduced to a dead level of technical plausibility, without an atom of feeling or artistry—and we are glad to take it this way for the sake of escaping worse."

And all this, says Mr. Cram, is at a time when there are as many practicing architects in the directory of a great city as all Europe numbered during the whole epoch of mediaevalism.

All the wealth and the artists and architects in the world, Mr. Cram says, could not rival to-day or equal the Capella Palatina in Palermo, which was merely the chapel of a second-rate prince in a frontier land in the dusk of the Dark Ages. The basic reason, he says, is the substitution during and after the Renaissance, in place of a communism that developed true personality, an individualism that destroyed personality. The triumphant individuality of the Renaissance, he says, hardened into an economic system that through mechanics, capitalism, and division of labor has become a very sordid kind of slavery.

There are, nevertheless, real craftsmen living to-day, Mr. Cram says, turning out exquisite work after the old fashion. "I know three makers of tiles and other products of burnt clay and glazes, who are consummate artists (one of them is a woman), and who are to be dealt with only as individuals, and who, if they are treated as allies, not as commercial purveyors of trade goods, can glorify any building with which they come in contact; I know two workers in wrought iron who are blood brothers of Adam Kraft, three goldsmiths who would gladden the heart of a Cellini, a woodcarver who is Peter Vischer restored to life, two sculptors who are really architectural sculptors as were the men who immortalized Chartres and Wells, a stonecutter whose craft matches that of the masons of Venice and Rouen, a maker of stained glass who needs only an opportunity to restore some measure of the wonder of this lost art, a maker of ecclesiastical vest-

ments whose needlework is that of the fifteenth century, a scribe who can do real missals and other illuminations as these once were done long ago.

"And not one of them has really enough to keep him busy or return him more than a living wage, while by default thousands of dollars' worth of work they could do consummately goes weekly to factories and similar places where it becomes so much plausible sham."

THE COST OF BRICK HOUSES.

The claim has been made by a writer in one of the trade papers devoted to the manufacture of clay products that the high cost of constructing brick buildings is due mainly to the bricklayer. He states that brick, while comparing favorably as to cost of material laid down on the ground with that of any other material, costs more in the building. In other words, it is not the material that makes brick houses cost more but the labor that puts it in place.

Further investigation showed these facts: That bricklayers receive \$6 a day of eight hours with a helper to each bricklayer, who receives \$4 a day and with a limit of 1,000 brick per day's work.

"It is the bricklaying that is at the bottom of the entire problem," said one dealer when approached to offer some solution. "The manufacturer has minimized the cost of making the product by the installation of modern methods, but has overlooked the fellow who puts his product into the walls.

"There is a scarcity of bricklayers now, but if we could turn them out like trade schools turn out printers, carpenters and others, there would be a different story. Look at the electricians. Why, a few years ago it was almost impossible to get a competent electrician at a reasonable price. To-day, however, it is different. They are still getting good wages, but they are doing more and better work."

It was suggested that the union bricklayer argued that he was not getting more than a living wage.

"Let him have his \$6 a day," replied the manufacturer. "I don't begrudge him his wages. What I do kick about is the output. He limits himself to 1,000 brick a day, and yet it is a poor bricklayer who cannot put 3,000 brick in a wall every day in the week. That makes quite a difference, doesn't it, when you begin to figure the construction cost. Take, for instance, common brick here in Chicago. You can get them laid down on the job at \$6 per 1,000. Yet you've got to pay \$10 to have them laid in the wall—or \$4 per 1,000 more than they cost to manufacture.

"We want the restriction taken off the amount of labor a man can do in a day. If he can lay 2,000 brick or more, let him do it. Then, too, there is the question of helper. By the rules of the union every bricklayer must have a hod carrier, who must be paid \$4 a day, yet where there are a dozen bricklayers on the job one or two would be sufficient."—"Record and Guide."

THE RELATION OF ARCHITECT TO CONTRACTOR

One of the Largest Problems of Building Business is Lack of Co-operation Between Architect and Contractor.

There are many problems confronting the contractors and builders of the present day, and while the methods and practices are largely improved from those of a few years ago, yet there are still in existence many of the problems which existed in the past decade which have been brought about by present day conditions.

Building is one of the unfortunate trades in which an inexperienced person is pre-disposed to believe that he knows quite as much as the expert, and while it is a fact that he generally knows what he wants, what he may be entitled to under the contract is often an entirely different matter and in this condition often lies the opportunity for arguments. As has been stated in previous articles, poor plans and specifications frequently handed the contractor upon which to bid for his work is a large problem, as is likewise a lack of skilled labor. Even these might be overcome if there was not such a lack of co-operation between architects and contractors.

The Lack of Co-Operation.

This, it seems to me, is the largest problem which confronts those who are engaged in the contracting and building business to-day. There is no reason why there should be such a lack of co-operation between the architect and the contractor, for the source of their business and its existence is absolutely the same. The architect must have the contractor and the contractor, in most cases, must have the architect, while the work of each parallels that of the other. They are constantly in contact and the problems which confront the one, usually, are the problems which confront the other, and yet for some reason there is a woeful lack of co-operation between the two.

The architect is apparently imbued with the idea that the contractor is going to get the best of him and the contractor, on the other hand, seems to be imbued with the idea that the architect is trying to "put one over" on him, and instead of being upon a friendly basis where they can work in the greatest harmony to the best interests of their clients they are apparently, more or less, at swords' points. Whether this is the result of some peculiar make-up in the nature of the two, one being an artist and the other a mechanic, whether it is due to a lack of education along lines of compatibility, or whether it is due to the condition of the time in which we live, it is nevertheless a most deplorable fact that this lack of co-operation exists.

There is, of course, unfair competition among and between architects as well as unfair competition among and between contractors, which is a great drawback to both

of these important lines of a business which is one of the foremost of our modern times, and there is a large amount of unfair criticism by the general public against both contractor and architect which is entirely superficial and without foundation or sense. Yet it is thought by some of both profession and craft that a closer affiliation with each other would only strengthen in the minds of the public, the basis of this unfair criticism, that there was a collusion between them.

An Absurd Proposition.

How absolutely absurd such a proposition or thought is may be seen in almost every building project, where this very lack of co-operation is shown by the troubles which arise, the disputes which have to be settled, the changes in specifications which have to be made, the large amount of "extras" which are necessary and for which the owner is held up on the work and which makes the cost more than originally intended or estimated.

Would it not be better to set aside public opinion, which is as variable as the wind, and have closer affiliation between architect and contractor, so that these troubles and abuses might be overcome through conference and friendliness and the exchange of ideas and thoughts, and thus prove in a few short months that it was a most beneficial association in that better and more complete plans and specifications would be made, more understandable and equitable contracts drawn, better building done and at a lesser cost, and with less worry to the owner who is paying the bills, the architect who has drawn the plans and made the specifications and the contractor who is executing the work. I contend that it would, and I also contend that men brought in contact with each other in such a manner are more fair, more honest, more sincere and more considerate of each other, and that they do not stoop to underhanded methods or illegal or unfair combinations and collusions—in other words, are honest business men at peace with each other and the world.

Close Sympathy Between Architect and Builder.

This is a day of co-operation; it is bringing about better results in every line of business and increasing individual efficiency. In a business of such importance as the building industry the closest sympathy and co-operation should exist between architect and contractor, who are both in the employ of the owner, to bring about the best results, not only for that owner who is pre-eminently entitled to it because he is paying for it, but for the benefit of the general public, the

stability and beauty of our cities and villages and the general prosperity and solidity of our country.

Co-operation between the architect and contractor, the artist and the mechanic, whose combined efforts give us our habitations and business buildings, would bring about more complete plans and specifications, better contracts, better working conditions, better workmen and more of them, because of these conditions, do away with many disputes, reduce the cost of building somewhat and make for harmony all along the line. We are working for such co-operation and to bring about such conditions, and are gaining to some extent, but there is still a woeful lack of desire on the part of many which we hope to sooner or later overcome through individual and association work and to which I believe we should devote a large share of our energies.—Charles A. Bowen, Secretary of Detroit Builders' Exchange, in "The Building Age."

DON'T'S FOR HOME BUILDERS.

Don't invest in cheap plumbing and lavatory fittings. If you do you'll soon discover it to be the most "expensive" economy you ever tried.

Don't plan a wonderful variety of color schemes in decorating when the consistent use of simple color combinations gives far more pleasing and decorative results.

Don't forget that rooms designed after simple, straight lines lend themselves more easily to decoration, prove more sanitary and are less tiresome to live in than badly arranged rooms.

Don't fail to have a large sheltered porch off the living or dining room, to be screened in summer and glassed in for a sun parlor in the winter.

Don't build your living porch to the west; it would be sunny in the afternoon, just when the housewife is freest to enjoy it. East, southwest, and south are the best exposures.

Don't regret it afterwards—make it a two-story porch, the second floor for out-door sleeping. There is nothing more healthful.

Don't let your front door open directly into the living room. A hall or vestibule cuts off cold.

Don't plan to have the stairway ascend from the living room. It's more picturesque than useful.

Don't overlook composition flooring for the bath room and the front vestibule. It is so easy to keep clean.

Don't miss having a laundry chute from the kitchen floor to the basement. It is the greatest convenience in the house.

—"American Carpenter and Builder."

Bell Phone, Spruce 6612

Keystone Phone, Race 2799

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Irving Dillon Editor

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Editorial Comment

The convention of the National Association of Builders' Exchanges held in Louisville, Kentucky, was, by all accounts, a splendid affair, as well it should be when one pauses to consider the personnel behind it. American builders are, as a class, about as representative a group of citizens as it is possible to isolate from the body politic. Indeed, we know of no class of business men who will average higher in general intelligence, solidity, public spirit and native enterprise. The average builder is not merely a builder of homes or of commercial structures. He is a builder of communities. Following in the wake of the pioneer he gives to the budding community its successive steps from the crudities of the early settlement to the refinements and luxury of the ultimate metropolis. The history of every city in the United States from the smallest to the largest is in its way a series of movements to the zeal, the resourcefulness, the enterprise and foresight of the American builder.

* * *

Philadelphia owes in a special and particular sense its nation-wide reputation as a City of Homes to the splendid skill in cheap home building of the operative builders of the Quaker City. Be pleased to understand that the term "cheap" in the foregoing sentence is used in no disparaging sense. We have no reference to the "jerry" builder who operates here as elsewhere. Philadelphia owes a debt of lasting gratitude to her operative builders for rows upon rows of houses within the reach of people of moderate means,—houses which it would be difficult to improve upon at the price and which are immeasurably superior to anything of the kind to be found in other cities. New York's supremacy as the city of skyscrapers is due in the same intimate sense to the daring, skill and ability to surmount natural difficulties which has characterized her building confraternity. So that builders, regard them from what angle you will, are a decidedly useful class of citizens. They have indeed a larger hand in shaping the development of our cities than most of us pause to award them.

* * *

It is not a subject for surprise, in the circumstances, that a convention made up of delegates from the guilds or exchanges of the craft should be a splendidly representative and inspiring assemblage. The Builders' Exchange is, in itself, the expression of a most engaging and attractive basic idea. To wit—the gathering into a compact organization of the builders of a given community for the purpose of exchanging views, smoothing out trade difficulties, bringing about a closer and better understanding as between architect and builder, builder and builder, material man and builder and builder and journeyman than could be expected to exist in the absence of such an organization.

And right here we want to say something in the apologetic vein to the builders of Philadelphia. Certain hastily-written remarks printed in a recent number of the "Guide" were interpreted, we regret to note, as an attack upon the local exchange. May we assure the gentlemen who compose this exchange, many of whom we are proud to number among our personal friends, and all of whom we hold in the most profound respect, that no such construction of our remarks was intended, implied or in the remotest sense insinuated. As Philadelphians we are as proud of the local exchange as any man connected with it. We believe it to be an excellent and useful and know it to be an honorable and respected organization. But—we have long thought, and still think for the matter of that, that it was not and is not making the most of its splendid opportunities. Take the one item of seeing that the activities of the exchange are chronicled in the public press from time to time as an example of some of the things we had in mind. Some time ago the "Guide set apart a page to be devoted in every number to the local exchange and its doings. That page had to be discontinued because it was impossible to get press matter from the exchange to keep it going.

* * *

The question of publicity was well mentioned by President Lewman in his speech of acceptance. "Publicity Our Watchword" should be the idea of every contractor, of every contractors' organization and of every Builders' Exchange, said President Lewman. Only by the fullest publicity can general confidence be had and the organization which cannot face the public in its own city as well as throughout the country is foredoomed to failure. In the search for improvement and advancement, no better watchword could have been chosen.

The education of the public is a serious matter. Too many quickly take a cynical view of associations, organizations, clubs, exchanges, and anything tending to bring men closer together. They see combinations, intrigue, plotting and all the attendant evils of corruption. To keep free from such thoughts or appearances requires judicious education and publicity. Contractors who are not members of the local exchange should be made to feel at home there, if possible. Their co-operation should be urged if they are qualified to join. They should be encouraged to become eligible, that they may share the benefits of the exchange, and the society of the better class of members. Publicity will help the well-conducted exchange and cure the faults of the others.

"The methods of publicity can safely be left to the individual exchanges, as the problem is largely a local one and each can conduct such a campaign as suits their case.

Many of the exchanges have their own publication, going to members and others interested, and the local and general information is of great interest."

* * *

"The Guide," far from harboring the wish, imputed to it, of antagonizing the local Exchange, desires only the opportunity to more fully and effectively co-operate with it and advance its well-being. We beg, indeed, to renew our offer, to find space for and to feature every item sent us concerning Exchange activities. If this savors of antagonism then we are antagonistic. One other item while we are on the subject of the misconstruction placed upon our recent observations regarding the Exchange, Philadelphia is becoming a somewhat considerable convention city. Gatherings of importance assemble here from time to time representing various lines of commercial, artistic and educational endeavor. What effort, if any, is made to attract the visitors, brought here by these assemblages, to the Exchange and its exhibits. Isn't there a point here worthy of serious consideration? Other little items, equally pertinent, might be mentioned here which, however, we shall reserve for lack of space. The point we want to make in referring to these at all is that our ill-fated little criticism was intended not to arouse the storm of angry protest it seems to have evoked, but to stir the management to a fitting sense of the enterprise, the snap and ginger which to our way of thinking should characterize an exchange.

* * *

One word more and we shall have done. An obscure publication in an interior county—a publication with but a remote claim to any association with the building trades is heralded as the "official organ of the National Association of Builders' Exchanges," as well as of the State Association of Builders' Exchanges. This publication rarely presents any matter of building trade interest and seldom the faintest reference to the bodies for which it assumes to speak. "The Guide," as the only building trades magazine in Pennsylvania, would be only too glad to devote valuable space and intelligently directed energy to the state and national organizations which permit this obscure little paper to figure as their "official organ."

* * *

Philadelphia, we are happy to report, figured prominently in the work of the recent convention, Mr. Franklin Harris, Jr., Mr. B. K. Nusbaum and Mr. Charles Elmer Smith, of the local Exchange, being honored with important committee assignments. Mr. Harris was in addition signally honored by appointment to be one of the State Commissioners,—representing Pennsylvania.

* * *

The most important action taken at the convention was the adoption and recommendation for temporary use of a new Uniform Contract, drawn to represent equitable conditions between the architect, owner and

contractor, and from which has been eliminated many of the objectionable phases of the present form.

The resolution embodying the sense of the national organization is here given in full so that it may be properly understood:

That Whereas: The proposition and resolution to standardize specifications and provide equitable contract conditions that were endorsed at the last convention, and which have been compiled together with an analysis of the sixty-three articles of contract documents proposed by the American Institute of Architects and many other publications and suggestions of parties interested in building construction, on the question of said standardization and equitable contract conditions; which have been compiled by order of the Board of Control in book form, tentative to publication and sent to various building interests with a view of obtaining their opinion is now before this convention.

Therefore, Be It Resolved, In view of the fact that the endorsement of the principles set forth in this book have been unanimously approved without a dissenting voice at this convention assembled and that the same be hereby endorsed and approved.

There has in the last few hours been presented to our Board of Control a communication from Mr. Frank Miles Day, chairman of the Committee on Contracts, of the American Institute of Architects, in which he states that their Board of Directors will meet within a few days with a view to acting upon this subject.

Be It Resolved Therefore, That inasmuch as this indicates the probability of agreeing upon standard and equitable conditions; that this book be referred to our contract committee with instructions to hold up its publication pending a meeting and if possible an agreement. If the meeting does not take place and no agreement is entered into, that this committee is hereby authorized and directed to make any changes in said book that they may deem necessary and then circulate it and other documents, with a view of giving publicity to the existing conditions in building construction and make an educational campaign against the present extremely hazardous and expensive conditions.

And in order to immediately stop the present loss in building construction and provide, without delay, equitable contract conditions.

Be It Further Resolved: That pending the reaching of an agreement with architects and architectural associations on fair and clear, standard and equitable contract documents; that the suggested form of contract in the pamphlet above referred to and approved, be urgently recommended for temporary use throughout the United States.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

RECENT TRADE LITERATURE.

One of the interesting features of the February issue of "DooR-Ways," the house organ of the Richards-Wilcox Manufacturing Company, Aurora, Ill., is a short article illustrating and describing a large barn at Elgin, Ill., in connection with which 42 pairs of Richards-Wilcox trolley barn door hangers were used, together with 312 feet of trolley track and a number of extra brackets to slide the doors. The barn itself is 48 feet wide and 168 feet long and side walls 24 feet high. It has stalls for 30 horses and bins for 3,500 bushels of grain and a capacity for 260 tons of hay.

* * *

Sandusky Portland Cement Company, Sandusky, Ohio, makes the announcement that as "Medusa" products are being used in all parts of the world and to enable its many customers to realize more comprehensively the conditions under which Medusa gray and white Portland cement and Medusa waterproofing have been successfully used; also to illustrate the important work and advantages of Medusa products it has decided to issue at frequent intervals a house organ known as the "Medusa Review," the initial number being that for January.

* * *

"Up to a standard, not down to a price," is the initial line of a circular recently issued by the Bridgeport Wood Finishing Company, Box 104, New Milford, Conn., describing Wheeler's architectural varnishes. The claim is made that these varnishes are of superior quality and made from selected gum. They are manufactured by the same company which for years has produced Wheeler's wood fillers. A blank post card attached to the circular ouers to send, on application, a booklet entitled: "Modern Wood Finishing," and issued by the company, which contains a great deal of interesting information relative to the subject indicated.

* * *

We have just received from the Flintkote Manufacturing Company, Boston, Mass., a sample of "Zolium" Diamond Tile Roofing which was recently taken from a roof in Rochester, that was laid nine years ago, the buildings being torn down to make way for another structure. The sample measures 2x3 inches in area and presents a rich coppery red appearance very much like Spanish tile. It shows scarcely any evidence of wear and is an excellent demonstration of the serviceability of this type of roofing. It will be recalled that this company also manufactures Rex-tile shingles which are made in two colors—red and slate—and are of such a nature that there is no warping, curling, twisting, splitting or turning up and, therefore, cannot flap in the wind. The 2-inch turn-under at the butt end is said to be that which does the trick.

Many are on the road to success—traveling the wrong way.

Important to Builders

Builders and Contractors who are preparing plans for residence building operations should not fail to incorporate in their plans the comprehensive Electric wiring of all buildings to be erected. It is certain that properties Electrically equipped will sell or rent more quickly than unwired houses.

We have facts and figures to show you.



GUM LUMBER MANUFACTURERS' ASSOCIATION.

Growing out of a meeting of prominent manufacturers of red gum which took place in Memphis some weeks ago there has been organized what is known as the Gum Lumber Manufacturers' Association, the objects and purposes of which are to secure a full understanding of conditions surrounding the gum industry in the territory covered by mills operated by members of the association, and also to adopt such measures as will provide for improved methods of manufacture and marketing. It is also the purpose of the association to disseminate such information as will tend to promote the general welfare of gum manufacturers. The officers elected for the ensuing year are: President, C. L. Harrison, of Cape Girardeau, Mo.; first vice-president, J. W. McClure, of Memphis, Tenn.; second vice-president, F. E. Gary, of Turrell, Ark., and treasurer, S. M. Nickey, Memphis, Tenn.

PREVENTING WINDOWS FROM SWEATING.

An ingenious device for preventing the steaming of windows in cold weather consists of a fishtail burner, through the flame of which a blast of air is directed against the window. The air is dried in passing through the flame and in spreading over the surface of the window completely prevents any deposit of moisture thereon. The fan is acted upon by a small electric motor. In a trial of the apparatus, says the "Electric Review and Western Electrician," a window was completely covered with steam from a kettle. On application of the blast from the apparatus the window was cleared in 30 seconds and no new deposit was produced so long as the apparatus was at work.

THE PROBLEMS OF THE CONTRACTOR

Speaking before the Boston Society of Civil Engineers, Mr. Leonard C. Wason, president of the Aberthaw Construction Company, gave a great many very interesting incidents which he had observed during his long experience on buildings.

With regard to weather conditions met with in construction, Mr. Wason outlined many of the points which the contractor must take into consideration when figuring on or supervising construction work.

Protection of Work from Rain.

It is necessary to protect form work from the rain, as usually it is possible to get only green lumber, its tendency being to shrink out of shape rather than swell. Rough concrete never need be protected from the rain before setting, only from the concentrated run-off over some portion of the work which might wash deeply the cement out of a small area.

A troweled finish, however, must be protected against being pitted by the rain or damaged by concentrated streams. This is usually done by tarpaulin, which consists of 12-oz. cotton duck rendered waterproof after being made into covers 20 feet square. These are supported by a temporary frame. They are somewhat of an inconvenience to the finishers, and decrease the amount of work which they can do.

If rain is expected, it is usual to delay work until after the storm is over, if possible; otherwise, to build a shelter. Sudden showers require quick decision whether there is time to build a shelter, and also its cost, as compared to making repairs on the surface if left exposed. As a rule the shelter is built.

Protection from Sun.

If there is to be an unavoidable delay in placing concrete after forms are erected, it is best to protect them from the sun if possible, because they shrink so as to open up cracks which permit the mortar to escape, leaving a bad surface on the concrete. Rough concrete does not require any protection from the sun, with rare exceptions. It is usual to cover up a granolithic finish for at least five days. The materials most available and most economically used for this purpose are rough bags, such as come around bales of cotton or wool, shavings, sawdust, and sand. The object of these is to retain the water which is put upon the surface to keep it wet and to maintain it at a fairly uniform lower temperature than direct sun action permits while setting.

The writer considers it unwise to spray bare concrete in the hot sun, and the use of roofing paper is but little better, because it retains moisture but a very short time. The water falling on a surface heated directly by the sun chills it suddenly, causing it to shrink, and may cause the very cracks which one is trying to avoid.

Protection from Frost.

The aggregates must be free from frost when mixed. A live steam pipe can be shoved into the sand pile, the escaping steam heating it and removing all frost. The same may be done with the stone, but a canvas should be thrown over the top of the pile to retain the heat, which more readily escapes. Where a considerable amount of heating is provided for in advance, steam pipes are laid on the ground, and stone as received is dumped upon them. Then there is a canvas thrown over to prevent storms getting into the pile, and to retain heat. The frost is thus easily and economically removed.

Salt is frequently used in the water to lower its freezing point. It is seldom worth while to heat the water itself. Little care need be used to prevent mass concrete from freezing, as the frost will usually only strike to a depth of about one inch. Buildings are enclosed with tarpaulin tied onto an outside staging, and the enclosed space is heated with salamanders burning coke. Sometimes it is possible to use steam.

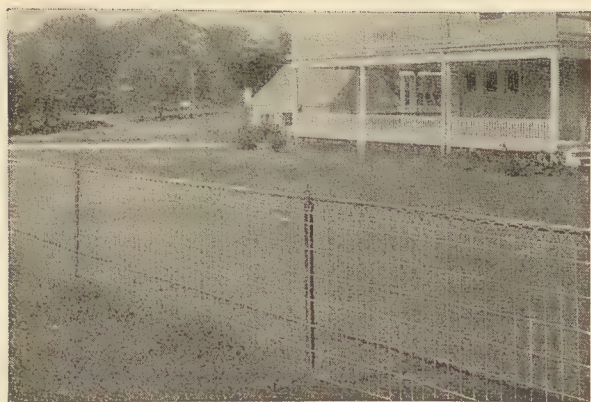
Frost is removed from form work by the use of salt and steam, and if the concrete surface is left rough it is common to sprinkle the top surface with salt to prevent freezing. In winter it is very common to put the finish on as a separate operation, after the building is inclosed, and not as an integral part of the construction, on account of the danger of freezing. When it is put on, it must be kept from freezing for the first forty-eight hours.

The expense of protection against the weather is not very great, and good results can be so surely guaranteed that it is not usual for the writer ever to discontinue work on account of cold weather.

Occasionally it is necessary to make some provision for the protection of the men. Shelters or windshields are built in front of the benches where carpenters are making up forms, as well as around the men at the concrete mixer, whose work does not necessarily keep them warm. Where excavation is going on in the open, it is expedient to have a building with a good fire where the men can warm themselves when necessary; and on a few jobs it has proved to be wise to furnish hot coffee free in these shelters.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

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Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The many friends of John A. Kelley will be interested in learning that on February 10 he severed his connection as Secretary of the Builders and Traders' Exchange of Columbus, Ohio, and assumed the position of manager of the Industrial Bureau of the Chamber of Commerce of that city. Mr. Kelley has succeeded as Secretary of the Builders and Traders' Exchange by Clarence Metters, who has had extended experience as a newspaper man.

**At the annual meeting of the Builders and Traders' Exchange of Chicago, held at their headquarters, officers for the ensuing year were chosen as follows: President, John D. Corlett; First Vice-President, W. L. Hoffman; Second Vice-President, August Pahlke; Treasurer, J. E. Lindquist. At this meeting directors were also chosen, these consisting of G. C. Haffner, A. C. Jaeger, Louis Krek, A. C. Preble and L. C. Vogel. There were 52 new members added to the roster during the year and the reports of the various officials and committees showed the association to be in a flourishing condition. It is interesting to note this is the third successive year Mr. Corlett has been elected President.

**The trade will be interested in the announcement that William Miller, for the past 37 years in the service of Henry Disston & Sons, Philadelphia, Pa., associated himself on February 1 with the Simonds Manufacturing Company, Fitchburg, Mass., and Chicago, Ill. Mr. Miller is one of the most experienced men in the saw, knife and file-making business and enjoys a very extensive acquaintance among the trade.

**The National Kellastone Company, with offices 507-8 at 19 South LaSalle street, Chicago, purchased all of the manufacturing plants, assets and physical properties at Argo and Alton, Ill., and Muskogee, Okla., formerly owned by the U. S. Kellastone Company, recently declared bankrupt. The new company has been organized to resume the manufacture of kellastone. Its selling and distribution policies, however, will differ radically from those of the former company. Kellastone is now made up of only the very purest of raw materials carefully tested, and great care is exercised in every detail of its manufacture, thus insuring continuous uniformity in both strength and color. Kellastone dealers can now rest assured of receiving prompt and careful attention to all orders and prompt deliveries.

**Francis H. Sherrerd has been appointed Engineer of Street Repairs of Newark, N. J.

**The Cincinnati Sheet Metal Club was formally organized at the Business Men's Club, Cincinnati, Ohio, on the evening of Jan-

uary 19, with an initial membership of 35. The formation of the club was for the purpose of arranging for the entertainment of the National Association of Master Sheet Metal Contractors, whose annual convention will be held in Cincinnati in the second week of June. The officers are: President, E. W. Edwards; Secretary, Ferd. F. Verges; Assistant Secretary, C. L. Smith; Treasurer, Charles F. Pfau. The chairman of the Publicity Committee is G. D. Myers. A number of members suggested that the club be made a permanent organization.

***"Painting the Town with Dixon's" is the title of one of the illustrated articles in the last issue of "Graphite," published by the Joseph Dixon Crucible Company, Jersey City, N. J. The picture represents a view in the business section of Philadelphia and embraces four large buildings, the steel work of which was protected by Dixon's silica graphite paint. The issue in question contains the usual amount of interesting information relative to graphite products.

**H. H. Robertson, President Asbestos Protected Metal Company, Beaver Falls, Pa., has been elected Vice-President of the Pittsburgh branch of the National Council for Industrial Safety.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

PATENT ON BRICK CLEANING INVENTION.

MacRae Bros., Empire Building, Seattle, have received notice from the patent office at Washington, D. C., that their claim for a patent on a brick cleaning machine invented by them, has been examined and allowed.

The machine is simple in mechanism and can be used by from one to six men, according to the size of the job. Each carborundum wheel which operates on a shaft, which can be lengthened or shortened, according to the number of men working, will clean about 7,000 bricks per day in comparison to about 2,500 brick, the capacity of a good hand brick dresser.

The cement and mortar which is removed by the grinding wheels, leaving a perfectly clean brick, is taken up by a suction fan which draws it into a reservoir where a fine spray reduces it to a thin slush and is carried off through the bottom of the apparatus. A 10-horsepower motor will operate a three-man machine.

PAINTED RADIATORS AND HEATING EFFICIENCY.

There always has been considerable controversy between stove and heating men as to whether or not painting a radiator will lessen the amount of heat given out by said radiator. This question is a vital one just now in view of the fact that householders at present are house cleaning, painting and generally improving the appearance of their homes. Factory managers, too, are busily engaged at this season in brightening up their plants and the opinion among them on the question is divided. Many of them contend that there is a loss in efficiency through painting.

It is generally believed that there is a great loss in efficiency from painting radiators. We do not agree with this opinion, however, says "The Locomotive," and it has long been our custom to require piping and radiators, to be painted in colors appropriate to the finish of the rooms in which they were placed. Professor C. L. Norton, of Boston, Mass., made a long series of experiments upon the transmission of heat through and from painted surfaces. His results are highly interesting, and are recorded in the nineteenth volume (1898) of the Transactions of the American Society of Mechanical Engineers. They have seemingly never attracted the attention they deserve. Taking the amount of heat radiated from a new pipe as 100, Professor Norton obtains the following relative values for the heat radiated, under similar conditions, from pipe treated as indicated:

Loss of Heat at 200 lbs. Pressure From Bar Pipe.

New pipe	100
Fair condition	116
Rusty and black	119
Cleaned with potash, inside and out.	116
Painted dull white	120
Painted glossy white	100.5
Cleaned with potash again	116
Cleaned with cylinder oil	116
Painted dull black	120
Painted glossy black	101

It appears from the foregoing results that the color of the pipe has little or no effect upon the radiation of heat, though the condition of the surface with respect to glossiness or dullness has quite a sensible influence. Thus a dull surface, whether it be white or black, has a radiative power of 120, and a glossy surface, whether white or black, has a corresponding power of only about 101. These results accord well with our experience, which is to the effect that there is no loss in efficiency through making pipes and radiators harmonize with the general color scheme of the rooms in which they are placed, provided glossy finishes are avoided.

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

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F. Weber & Co., 1125 Chestnut st., Phila.

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N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

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Mitchell Bros., 2125 Race st., Phila.
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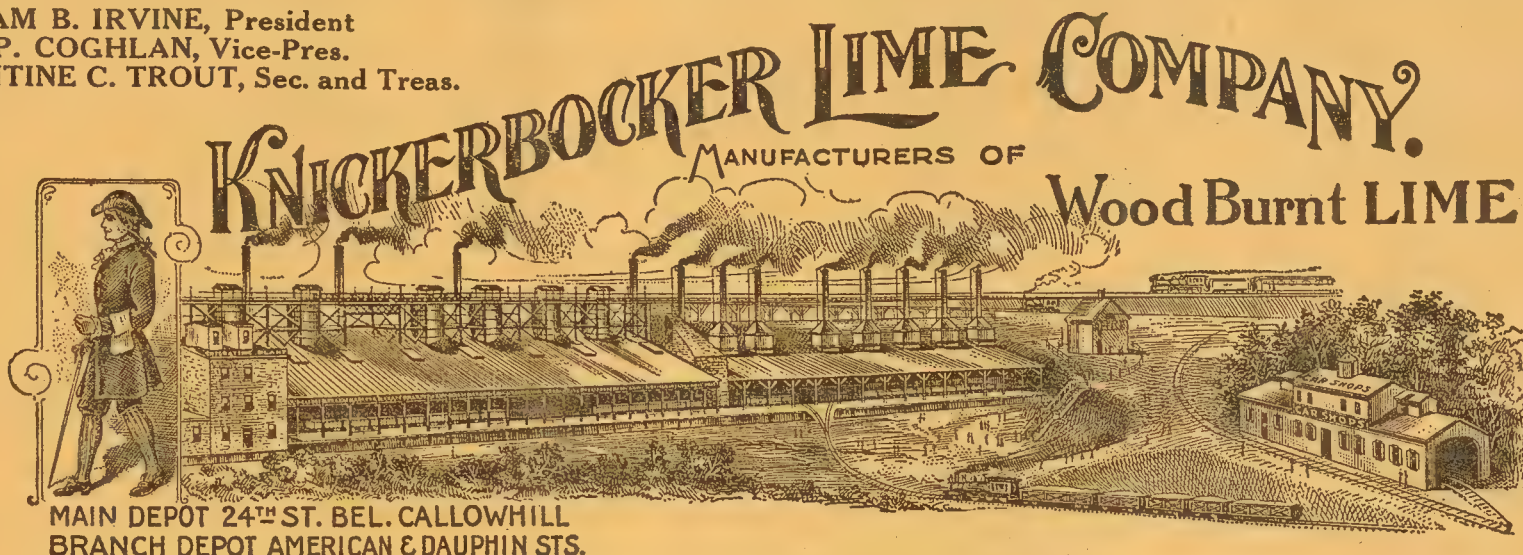
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Vol. XXIX., No. 12.

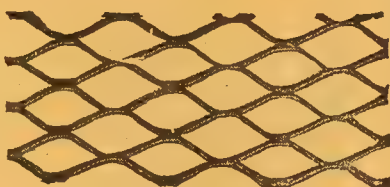
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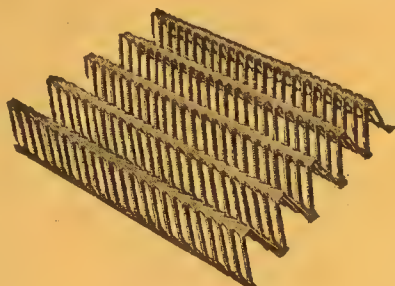
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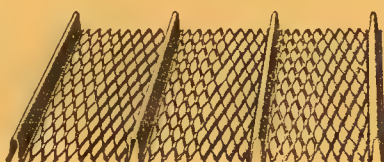


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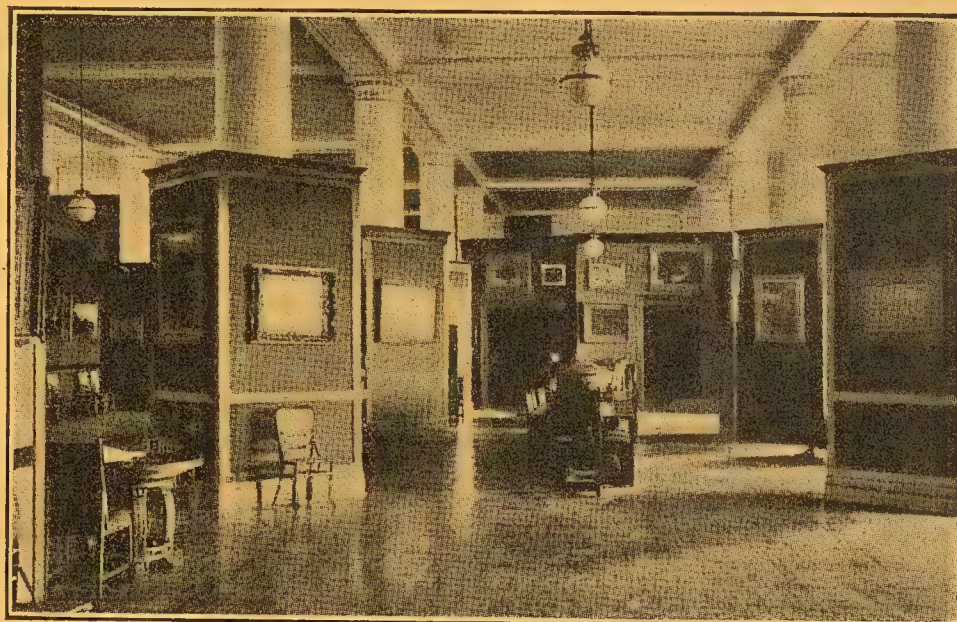
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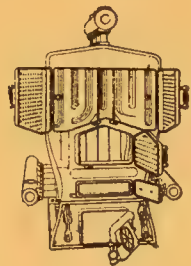
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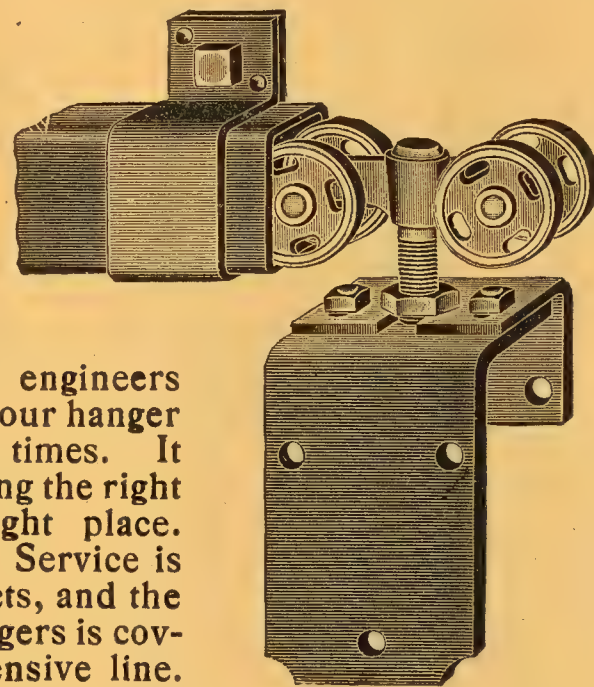
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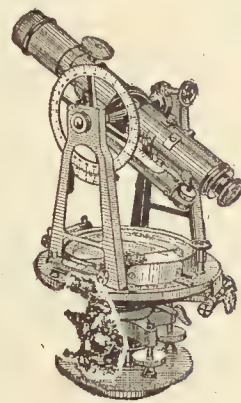
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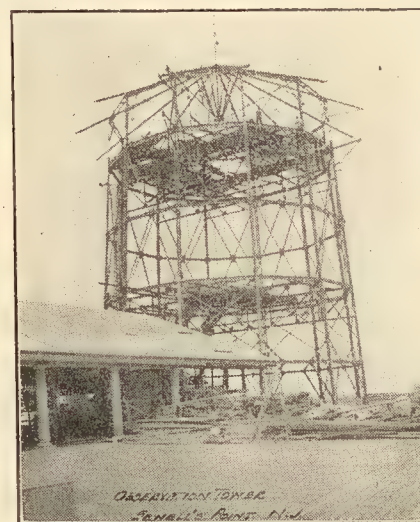
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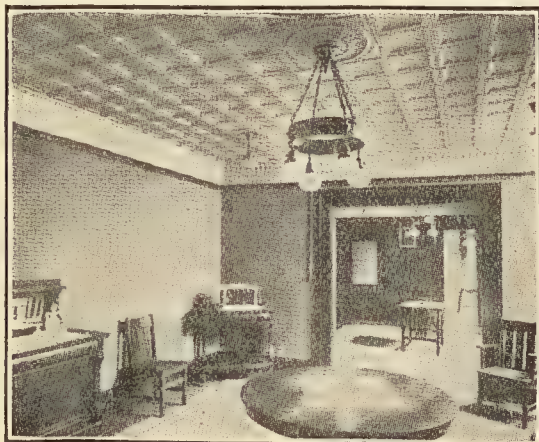


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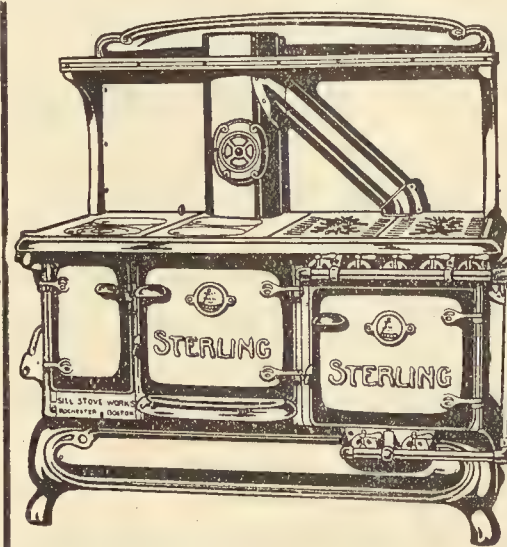
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PHILADELPHIA, WEDNESDAY, MARCH 25, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Restaurant (alts.), southeast corner Thirteenth and Sansom streets. Architects, Stuckert & Sloan, Crozer Building. Owners, Crane Ice Cream and Baking Company, Twenty-third, below Locust street. Consists of remodeling first floor for restaurant. Plans in progress.

Factory (add.), 4410 Main street, Manayunk, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, the Missouri Mills, on premises. Brick and concrete, 5 stories, 46x63 feet, slag roof, steam heating, electric lighting. Plans in progress. Architects will take bids in ten days.

Garage, Twelfth and Norris streets. Architect, John I. Carmichael, 1520 Fairmount avenue. Owner, I. A. Dionne, 2241 North Broad street. Brick, 1 story, 47x80 feet, slag roof (heating and electrical work and gasoline tank and pump reserved). Owner taking bids, due March 26th. D. H. Sharp Co., inc., Heed Building; John McKenna & Son, 1032 Race street, and Graham-Campion Company, Heed Building, are figuring.

Bird House, Thirty-fourth and Girard avenue. Architects, Mellor & Meigs, 205 South Juniper street. Owners, Zoological Society of Philadelphia, on premises. Brick, 1 story, 80x125 feet, glass roof, hot water heating. Architects taking approximate bids. J. S. Cornell & Son, Land Title Building, and Henry L. Brown, 1714 Sansom street, are figuring.

Residence, Queen lane and Knox street. Architect, L. V. Boyd, Harrison Building. Owner, Miss Florence C. Fetherston, 5301 Knox street. Stone, 2½ stories, shingle roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Office and Warehouse, Twelfth and Somerset streets. Architect, private plans. Owners, A. Parker & Co., 720 Chestnut street. Brick, 1 stories, 40x60 feet, slag roof. Owner is taking bids.

Factory Building, Front and Palmer streets. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Woods & Hooker, 1705 North Front street. Brick, 2 stories and basement, slag roof. Plans in progress. Bids in about two weeks.

Picture Theatre, Thirty-first and Wharton streets. Architect, private plans. Owners, Starr Amusement Company, Thirty-first and Wharton streets. Brick and terra cotta, 1 story, 42x65 feet, slag roof, steam heating, electric lighting. Owners taking sub-bids.

Engine House (alt. and add.), Twentieth and Hamilton streets. Architect, W. Hunter, Reading Terminal. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets. Brick and steel, 2 stories, 131x199 feet, composition roof. Owners taking bids, due March 28th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Armstrong & Latta, Land Title Building; J. Sims Wilson, 1125 Brown street; F. A. Havens, 845 North Nineteenth street; Charles Gilpin, Harrison Building; Brown-King Const. Co., Harrison Building; W. W. Lindsay, Harrison Building; A. L. Carhart, Hale Building; Thomas C. Trafford, 1613 Sansom street; George Hogg, 1634 Sansom street; Irwin & Leighton, 126 North Twelfth street.

Stores and Residences, 1383-85-87 Ridge avenue. Architect, Louis Levi, Real Estate Trust Building. Owner, David Finkelman, 1385 Ridge avenue. Brick, 3 stories, 16x45 feet, slag roof, steam heating, electric lighting. Plans in progress.

Loft Building, 806 Cherry street. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Benjamin Linker, Heed Building. Brick, 4 stories, 21x70 feet, slag roof, steam heating, electric lighting, metal frames and sash, elevators, metal lath. Owner taking sub-bids.

Garage, 432 West Walnut lane. Architect, private plans. Owner, Horace A. Reeves, Jr., 1420 Chestnut street. Stone, 1 story, 23x33 feet, slate roof, hot water heating, electric lighting, gasoline storage. Owner received bids March 23rd.

Apartment House, Fifteenth and Allegheny avenue. Architect, LeRoy B. Rothschild, Bulletin Building. Owners, Chapell & Goldberger, 1640 Germantown avenue. Brick, 3 stories, 50x140 feet, slag roof, steam heating, electric lighting, hardwood floors. Owners taking sub-bids.

Club House (add.), 1312 North Broad

street. Architect, Herman Schweizer, 1314 North Broad street. Owners, Loyal Order of Moose, on premises. Brick, 3 stories, 75x90 feet, slag roof, steam heating, electric lighting. Plans completed. Architect read for bids.

Picture Theatre, Sharpnack and Germantown avenue. Architects, Borzner & Wood, 721 Walnut street. Owner, Benjamin Haas, 3008 Germantown avenue. Brick and terra cotta, 1 story, 42x84 feet, slag and metal tile, steam heating, electric lighting, waterproofing, metal lath. Architects received bids March 23rd.

Library Building, Fifty-second and Media streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, George Institute, Fifty-first and Lancaster avenue. Brick, 2 stories, 72x72x19 feet, slag roof, hot water heating, electric lighting. Plans in progress. Owners will take bids.

Factory, 3517 North Lawrence street. Architect, Peter Kuhn, 3058 North Eighth street. Owners, Ridgway Refrigerator Company, on premises. Brick, 1 story and basement, 70x105 feet, slag roof, steam heat, electric lighting. Owners taking bids. H. H. Wehmeyer, 1004 West Lehigh avenue, is figuring.

Office Building, 1701-03-05 Arch street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Board of Home Missions and Church Extension, 1026 Arch street. Stone, brick and terra cotta, 6 stories, 60x114 feet, slag roof (heat and light reserved), fireproofing, concrete and hollow tile, dampproofing, waterproofing, metal lath, metal partition, metal frames and sash, elevators. Architects received bids March 24th.

Apartment House (alt. and add.), 333 Dickinson street. Architect, F. N. Greisler, 2560 Frankford avenue. Owner, Shakin, 1015 North Second street. Brick, 3 stories, 16x40 feet, slag roof, electric lighting. Plans in progress.

Warehouse, 119 Pine street. Architect, F. N. Greisler, 2560 Frankford avenue. Owner, W. Borton, 4207 Lancaster avenue. Brick, 3 stories, 30x70 feet. Plans in progress.

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Fifth street. Architect, F. N. Greisler, 2560 Frankford avenue. Owner, I. Cohn, on premises. Brick, 3 stories, 17x98 feet, slag roof, hot water heating, electric lighting. Architect taking bids, due March 25th. B. Bornstein, 412 South Fifth street; J. W. Emery, 1524 Sansom street; Fred Quate, 1323 Snyder avenue, and E. E. Hollenback, Fifteenth and Race streets, are figuring.

Residence, St. Martin's, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and stucco, 2½ stories, 22x35 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Bids in about two weeks.

Lunch and Wash Rooms, Thirty-fifth street and Gray's Ferry road. Architects, Ballinger & Perrot, 1211 Arch street. Owners—Beckton Chemical Co., on premises. Brick and concrete, 2 stories, 31x84 feet, slag roof (heating and lighting, reserved), metal windows, asphalt floors. Architects taking bids due March 26th. The following are figuring: William R. Dougherty, 1610 Sansom street; Doyle & Co., 1519 Sansom street; Irwin & Leighton, 126 North Twelfth street; Barclay White Co., Perry Building; Harrison C. Rea Co., 1027 Wood street.

Twin Residence, St. Martin's, Phila. Architect, E. B. Gilchrist, Harrison Building. Owner, Dr. George Woodward, North American Building. Brick, 2½ stories, 35x75 feet, shingle roof (warm-air heating and electric lighting, reserved), hardwood floors. Architect taking bids due March 28th. The following are figuring: Henry L. Brown, 1714 Sansom street; Joel W. Hutton Co., 411 Harrison Building; Pringle Borthwick, 8018 Germantown avenue; J. E. Walt, 204 East Willow Grove avenue; F. Elvidge & Sons, 5522 Germantown avenue.

Engine House (alt. and add.), Twentieth and Hamilton streets. Architect, W. Hunter, Reading Terminal. Owner, Philadelphia & Reading, R. R. Co., Twelfth and Market streets. Brick and steel, 1 story, 131x199 feet, composition roof. Owner taking bids due March 28th. In addition to those previously reported, Irwin & Leighton, 126 North Twelfth street; El. Seeds, 6314 Wissahickon avenue; F. L. Hoover & Sons Co., 1023 Cherry street; Burd P. Evans, Thirteenth and Wallace streets; Wells Const. Co., Withers-

poon Building; Doak & Co., Crozer Building; J. E. & A. L. Pennock, Land Title Building.

Residence, Sedgwick Farms, Germantown. Architect, B. Tourison, Land Title Building. Owners, Sedgwick Farms Co., on premises. Stone, 2½ stories, 27x52 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Infirmary Building, Ogontz and Cheltenham avenues. Architects, Furness & Evans, Provident Life Building. Owner, Odd Fellows' Orphanage, on premises. Brick, fireproof, 2 stories, 48x72 feet, slate roof (central plant heat and light reserved), waterproofing. Revised plans in progress.

Stable, 427 Fitzwater street. Architects, B. J. Medoff & Sons, 524 Walnut street. Owner, Max Supowitz, 429 Fitzwater street. Brick, 2 stories, 21x136 feet, slag roof, electric lighting. Plans completed. Owner will take bids.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouses (2), 118-120 Spruce street and 113 Delancey street. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, Stohrer's Keystone Pickle Works, 118 Spruce street. Brick and reinforced concrete, 3 and 4 stories, 49x100 feet, 48x73 feet, slag roofs, electric light, steam heat, elevators. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street.

Drying Room, 2327 and 33 North Seventh street. Architect, private terms. Owner, P. C. Schaefer, 2327 to 33 North Seventh street. Frame, 1 story, 30x110 feet, slag roof. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Public Comfort Station, Ontario Park, Philadelphia. \$4,567. Architect, Edward Crane, City Hall. Owner, Bureau of City Property, City Hall. Brick and concrete, 1 story, 20x40 feet, electric lighting, safety treads, enamel brick, water-proofing. Contract awarded to Monaghan & Losse, 218 South Twelfth street.

Y. W. C. A., Allegheny avenue and Hancock street, \$200,000. Architect, Hewitt & Granger, Bullitt Building. Owner, Y. W. C. A., Eighteenth and Arch streets. Brick and terra cotta, fireproof, 114x130 feet, 6 stories and 3 wings, slate and slag roof (heat and light, reserved), elevators, damp-proofing, water-proofing, metal frames and sash, metal trimmings and doors, kalamein work, hollow tile and gypsum block, enamel brick. Contract awarded to Charles Gilpin, Harrison Building, Philadelphia, for main building.

Store and Apartment House, 3336 North Broad street. Architects, Lachman & Murphy, Witherspoon Building. Owner, Thomas J. Beck & Son, 3320 North Broad street. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to Harry A. L. Smink, 5320 North Twelfth street.

Garage, 6811 Quincy street, Germantown, Philadelphia. \$4,000. Architects, Heacock & Hokanson, Bailey Building. Owner, Charles L. Betts, on premises. Stone, 2½ stories, 25x26 feet, shingle roof, hot-water heating. Contract awarded to William H. Eddleman, 453 Green lane, Roxborough, Philadelphia.

Sunday School Building, Oak Lane. \$21,000. Architect, E. W. Thames, Heed Building. Owner, Oak Lane Baptist Church, Oak Lane, Pa. Stone, 2 stories, slate roof, steam heating, electric lighting, damp-proofing, metal ceiling. Contract awarded to Alexander Chambley, No. 243 South Tenth street.

Residence (alt.), 106 South Thirty-eighth

street. \$2,000. Architects, Durham Bros., Heed Building. Owner, J. W. Howell, on premises. Consists of Interior alterations. Contract awarded to Mockett Construction Co., Sixth and Market streets, Camden, N. J.

Residence, Allen Lane, Philadelphia, \$16,000. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and stucco, 2½ stories, 126x50 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Residence, Chestnut Hill, Philadelphia. Architect, Louis Carter Baker, 34 South Seventeenth street. Owner, Nathan Trotter, 36 North Front street. Stone, 2½ stories, 30x38 feet, shingle roof, electric lighting, hardwood floors (heating reserved). Contract awarded to J. P. Thompson, Real Estate Trust Building.

Residence, St. Martins, Philadelphia, \$14,000. Architects, Harris & Richards, Drexel Building. Owner, William Forsyth, 7020 Chew street. Stone, 2½ stories, shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to F. B. Davis, 35 South Seventeenth street.

Factory, Seventeenth and Allegheny avenue. Architects, Stearns & Castor, Stephen Girard Building. Owners, A. Mecky & Co., 1705 Allegheny avenue. Brick, 5 stories, 98x110 feet, slag roof. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Picture Theatre, Kensington and Lehigh avenues, \$20,000. Architect, Herman Miller, Crozer Building. Owner, John Knoell, 3154 North Broad street. Brick and terra cotta, 1 story, 68x105 feet, slag roof, steam heating, electric lighting. Contract awarded to H. P. Schneider, York road and Erie avenue, who is taking sub-bids on all lines.

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Office Building, Lancaster, Pa. \$30,000. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, Examiner Publishing Co., Seventh and North Queen streets, Lancaster, Pa. Brick and terra cotta front, 8 stories, 31x60 feet, slag roof, electric lighting, concrete floors, heating not decided. Plans in progress.

Shoe Factory (Add.), Akron, Pa. \$7,500. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Miller, Hess & Co., Lancaster, Pa. Brick and concrete, 2½ stories, 50x60 feet, slag roof, steam heating. Owners taking bids. Peter Wohlsen and L. B. Wright, Lancaster, Pa., are figuring.

Residence, New Holland, Pa. \$10,000. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, A. B. Groff, New Holland, Pa. Brick, limestone trimmings, 3 stories, 50x36 feet, asbestos shingle roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Owner will be ready for bids about April 1st.

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PENNSYLVANIA Construction News

Rectory, Newtown Square, Pa. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Father Maguire, Newtown Square, Pa. Stone, 2½ stories, slate roof. Plans in progress. Too early for details.

Farm House (add.), Downingtown, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Howard W. Lewis, Downingtown, Pa. Frames, 2½ stories, 15x28 feet and 18x22 feet, shingle roof. Architect received bids March 21st.

Bungalows (11), Collingdale, Pa. \$2,600 each. Architect, Joseph R. Ogden, A Bartlett Building, Atlantic City, N. J. Owner, J. D. Ogden, 1017 Betz Building, Philadelphia. Stone and brick, 1½ stories, 26x45 feet, rawhide roof, hot-water heating, electric lighting. Owner taking sub-bids on all lines.

Rectory (add.), Bryn Mawr, Pa. Architects, Evans & Warner, Witherspoon Building. Owner, Church of the Redeemer, Bryn Mawr, Pa. Stone, 2 stories, 20x25 feet, slate roof, hot-water heating, electric lighting. Architect taking bids due March 28th. H. H. Burrell, 1202 Chancellor street; J. Myers & Sons, Witherspoon Building; J. S. Cornell & Sons, Land Title Building; F. L. Hoover & Son, 1023 Cherry street; Elfretth & Wood, 1708 Sansom street, all of Philadelphia, are figuring.

Garage, Langhorne, Pa. \$4,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Ellwood W. Watson, Langhorne, Pa. Stone, 1 story, 24x30 feet, slate roof, steam heating, electric lighting, concrete floors. Architects taking bids due April 1st. The following are figuring: H. E. Gorton, Newtown, Pa.; Joseph Taylor, Langhorne, Pa.; Cyrus Smith, Hulmeville, Pa.; Edward LaRue, 53 South Hermitage street, Trenton, N. J., and Angelo Di Renza, Bristol, Pa.

Residence, near Valley Forge, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 36x98 feet, wing, 20x40 feet, tile roof, warm-air and hot-air heating, fireproof partitions and uoors, hardwood floors, electric lighting. Plans completed. Architects ready for bids.

Apartment (alt and add.), West Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. S. Swartz, Reading, Pa. Brick, 3 stories, 25x77 feet, slag roof, vapor heating, combination lighting, hardwood floors, metal and glass front. Plans in progress.

Houses (14), Hyde Park, Pa. \$35,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, Kramer & Hohm, Hyde Park, Pa. Brick, 2½ stories, 14x50 feet, slate roof, hot-air heating, electric lighting. Plans in progress.

Houses (3), Riverside, Reading, Pa. \$15,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Mrs. E. N. Reiff, 520 Washington street, Reading, Pa. Brick, 2½ stories, 13x52 feet, slate and tin roof, hot-air heating, gas lighting. Architect received bids March 20th.

School, Chambersburg, Pa. Architect, James W. Miller, Chambersburg, Pa. Owner, Thaddeus Stevens School, care of J. S. Seiders, Secretary, Board of Education, Chambersburg, Pa. Brick and stone, 2 stories and basement, 96x96 feet, slate roof (electric lighting and steam heating, reserved). Owners taking bids due March 26th. The following are figuring: E. M. Shields, Quigley Hafer and Walter Bowers, all of Chambersburg, Pa.; Charles W. Strayer, Harrisburg, Pa.; H. J. Wenzelberger, Phillipsburg, N. J.; F. Roe Searing, Perry Building, Philadelphia, and W. A. Pentz, Scotland, Pa.

Home, Elizabethtown, Lancaster County, Pa. Architect, Calvin J. Young, Reading, Pa. Owner, F. and A. M. of Berks County, care of F. A. Marx, Reading, Pa. Stone, fireproof, 3 stories, 59x33 feet, slate roof, gypsum block partitions, metal lath, electric lighting (heating, reserved). Architect taking bids due March 31st. The following are figuring: F. Roe Searing, Perry Building, Philadelphia; Adam P. Spatz, Wernersville, Pa.; C. H. Schlegel, Mt. Penn., Pa.; D. H. Hunter, 820 North Eleventh street, Reading, Pa.; N. B. Trexler, 165 West Windsor street, Reading, Pa.

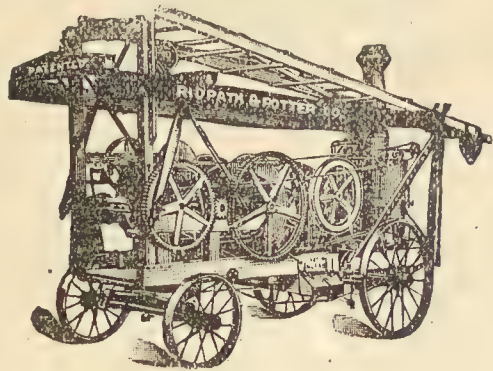
Power House, Norristown, Pa. Architect and Engineer, J. A. Crisfield, care of U. G. I., Broad and Arch streets. Owner, County Gas & Electric Co., care of U. G. I. Co. Brick, steel and concrete, 2 stories, 72x99 feet, slag roof, asbestos partitions, steel sash and frames. Owners taking bids due March 30th. The following are figuring: George & Borst, 277 South Eleventh street; James G. Doak & Co., Crozer Building; H. E. Batton, Twelfth and Sansom streets; William Steele & Sons, Sixteenth and Arch streets; F. Heavner, Norristown, Pa.; W. W. Lindsay, Harrison Building; F. J. Boas, 201 North Broad street; A. Whitehead, Inc., 1624 Latimer street, Philadelphia.

Residence (alt.), Lancaster, Pa. \$1,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Brick, 2½ stories, 17x48 feet, hot-air heating, gas and electric lighting.

Residence, Roherstown, Pa. \$5,400. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, R. W. Roseboro, 209 Ruby street, Lancaster, Pa. Brick, 2 ½ stories, 36x36 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architect will take bids about April 1st.

Residence, Lancaster, Pa. \$8,000. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, F. H. Shaw, 53 North Duke street, Lancaster, Pa. Brick, 2½ stories, 36x40 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans about completed. Owner will take bids in about ten days.

Residence and Store, Lancaster, Pa. \$4,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, John Reinhold, 648 East Walnut street, Lancaster, Pa. Brick, 3 stories, 22x74 feet, slag roof, hot-water heating, gas and electric lighting. Owner taking bids.



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Residence, East Petersburg, Pa. \$3,500. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, F. W. Wiest, East Petersburg, Pa. Brick, 2½ stories, 2jx30 feet, slate roof, hot-water heating, gas and electric lighting. Owner taking bids.

Exchange Building (interior al.), 522 Court street, Reading, Pa. \$1,300. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, Consolidated Telephone Co., 522 Court street, Reading, Pa. New combination lighting, steel lockers. Plans in progress.

Club House, Moss and Merion streets, Reading, Pa. \$12,000. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, Merion Fire Co., Veteran Association, Ninth and Merion streets, Reading, Pa. Brick, 2 stories, 50x90 feet, slag roof, combination lighting. Ready for bids in 10 days.

Hospital (alt. and add.), Reading, Pa. \$25,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Homoeopathic Hospital, Reading, Pa. Brick, 3 stories, Holland glass waiscotting, laundry machinery, new plumbing fixtures, slate room, heating, combination lighting, tile floors. Plans completed. Ready for bids.

Residence, Lebanon, Pa. \$4,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Captain H. D. Case, Lebanon, Pa. Frame and stucco, 2½ stories, 32x25 feet, shingle roof, vapor heating, combination lighting, hardwood floors. Plans in progress. Ready for bids in a week.

Church (alt. and add.), Tamaqua, Pa. \$5,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. John's Reformed Church, Tamaqua, Pa. Brick, 2 stories, 45x100 feet, slate roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Church, New Cumberland, Pa. \$15,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Church of God, New Cumberland, Pa. Brick, stone trimmings. 1½ stories, 50x90 feet, asbestos slate roof, vapor heating, electric lighting, hardwood floors. Plans in progress.

Club and Picture Theatre, Mahanoy City, Pa. \$25,000. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, B. P. O. E. No. 695, Mahanoy City, Pa. Brick and terra cotta, 3 stories, 42x125 feet, slag, terra cotta and tile roofs, steam heating, combination lighting, hardwood floors, galvanized iron skylights, bowling alleys, composition flooring. Architect ready for bids.

School, Northampton, Pa. \$40,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Board of Education, Northampton, Pa. Brick, terra cotta and concrete, 3 stories, 60x180 feet, slag roof, direct indirect steam and hot-air heating, electric lighting, composition, tile and wood floors. Plans in progress.

Double Residence, Bethlehem, Pa. \$7,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Irvin Biery, Bethlehem, Pa. Brick, 2½ stories, 34y50 feet, slate roof, hot-water heating, gas and electric lighting. Owner is taking bids.

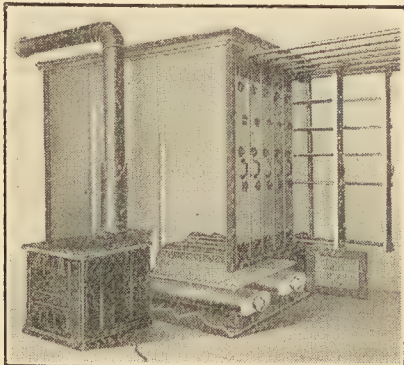
Residence (8), Allentown, Pa. \$20,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Max Senderowitz, Allentown, Pa. Brick, 3 stories, 15x45 feet each, slag roofs, hot-air or hot-water heating, gas and electric lighting. Owner taking bids.

Residence, College Hill, Easton, Pa. \$8,000. Architect, William Michler, Easton, Pa. Owner, William Bryan, Easton, Pa. Brick, 2½ stories, 50x38 feet, slate roof, hardwood floors, gas and electric lighting. Plans completed. Architects ready for bids.

Residence, Llanerch, Pa. \$7,000. Architect, Richard C. Loos, 1017 Chestnut street. Owner, J. M. McCready, Keith Theatre Building. Hollow tile and stucco, 2½ stories, slate roof, hot-water heating, electric lighting. Architects taking bids due March 28th. The following are figuring: James C. Driscoll, Hale Building; Klos & Reiff, 1131 Race street; W. Harry Roberts, Newtown Square, Pa.; W. B. Leach & Co., Llanerch Manor, Pa.; Worrell & Waters, Rosemont, Pa.

Club House, West Chester, Pa. Architect, Ralph E. White, Pennsylvania Building. Owner, New Century Club, care of Mrs. Chester P. Martindale, West Chester, Pa. Brick, hollow tile and plaster, 2 stories, 38x78 feet, shingle roof, electric lighting. Plans in progress.

Church (alt. and add.), Phoenixville, Pa. Architect, Geo. I. Lovatt, 418 Walnut street, Phila. Owner, St. Mary's R. C. Church, Phoenixville, Pa., care of Rev. J. H. Gavin, on premises. Stone, 1 story, slate roof (steam heating and electric lighting, reserved). Architect taking bids due March 31st. The following are figuring: William J. McShane, 417 South Thirteenth street, Philadelphia; William R. Dougherty, 1610 Sanson street, Philadelphia; Elliott & Cromby, Phoenixville, Pa.; G. L. Feters, Phoenixville, Pa.; M. F. Lawler, Norristown, Pa.



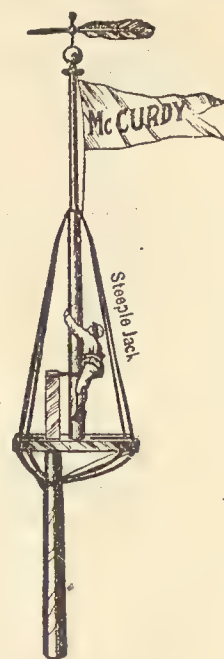
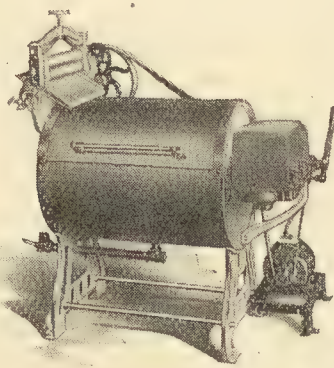
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Double Residence, Phoenixville, Pa., \$6,000. Architect, J. V. Poley, Royersford, Pa. Owner, Mrs. Chester M. Spare, 211 Fourth avenue, Phoenixville, Pa. Brick and stucco, 2½ stories, 35x54 feet, asbestos shingle roof, steam and hot water heating, gas and electric lighting. Plans in progress. Owner will take bids in one week.

Residence, Phoenixville, Pa. Architect, J. V. Poley, Royersford, Pa. Owner, Fred Solatke, 15 Franklin avenue, Phoenixville, Pa. Brick, 2 stories, 18x42 feet, tin roof, hot air heating, gas and electric lighting. Plans in progress. Owner will take bids in one week.

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THE BUILDERS' GUIDE,
Perry Building, Philadelphia.

PENNSYLVANIA Contracts Awarded

Garage, Pottsville, Pa. \$10,000. Architect, Harry J. Maurer, 33 North Sixth street, Reading, Pa. Owner, Frank Yuengling, Pottsville, Pa. Brick and stucco, 2 stories, 30x45 feet, shingle roof, steam heating, electric lighting, concrete floors. Contract awarded to L. H. Focht & Son, 529 Court street, Reading, Pa.

Twin Houses, Wyomissing, Pa. \$5,000. Architect, Calvin J. Jones, 520 Washington street, Reading, Pa. Owner, Henry Haupt, Wyomissing, Pa. Brick, 2½ stories, 15x52 feet, slate roof, hot-water heating, combination floors. Contract awarded to Haupt & Reptz, Reading, Pa.

Hotel (alt. and add.), Wernersville, Pa. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, Miss Katherine Gerhart, Wernersville, Pa. Cut stone and wood, 3 stories, 60x100 feet, slate and tin roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to Adam Spatz, Wernersville, Pa.

Parochial School, St. Clair, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Mary's R. C. Church, St. Clair, Pa. Brick and stone, 2 stories, slate roof, steam heating, electric lighting. Contract awarded to Gordon Nagle, Morris Building, Pottsville, Pa.

Church, Sunday School and Parish House, Norristown, Pa. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Norristown Lutheran Church, Norristown, Pa. Stone and brick, 1, 2 and 3 stories, 22x35 feet and 45x120 feet, slate and tinroofs, central heating plant, electric lighting. Contract awarded to F. R. Heavner, Norristown, Pa.

School, Dillsburg, York Co., Pa. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owner, Board of Education, Dillsburg, York Co., Pa. Brick, 2 stories, 48x84 feet, asbestos roof, steam heating, electric lighting, water-proofing. Contract awarded to C. W. Strayer, 62 Union Trust Building, Harrisburg, Pa.

Residence and Garage (alt. and add.), Paoli, Pa. \$35,000. Architect, H. G. McMurtree, 1012 Walnut street, Philadelphia. Owner, Samuel Horner, Jr., 1324 North Broad street, Philadelphia. Stone, 2½ stories, consisting of two wings, 25x30 feet and 30x30 feet, shingle roof, electric lighting, hot-water heating, hardwood floors, gasoline storage. Contract awarded to E. E. Hollenback, Fifteenth and Race streets, Philadelphia.

School, Collingdale, Pa. \$13,000. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, School Board of Borough of Collingdale, Delaware County. Brick, 1 story, 51x91 feet, slag roof, hot-air heating. P. J. Hurley, 1233 Cherry street, Philadelphia, submitted the lowest bid.

Telephone Exchange, Pittsburgh, Pa. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owner, Bell Telephone Co., 1320 Arch street, Philadelphia. Brork and terra cotta, steel, fireproof, 9 stories, 58x180 feet, slag roof, electric lighting, steam heat, elevators, metal lath, metal windows and doors, fireproof partitions, water-proofing. Contract awarded to Thompson-Starrett Co., Second National Bank Building, Pittsburgh, Pa.

Court House (add.), Allentown, Pa. Architect, R. S. Rathburn, Allentown, Pa. Owner, Lehigh County Court House, Allentown, Pa. Stone and brick, fireproof, 3 stories and basement, 45x190 feet, slag roof, steam heating, electric lighting, oak floors, enamel brick, water-proofing, damp-proofing (steam heating and electric light, separate bid), metal frames and sash, kalem doors, elevators.

Lowest bid submitted by Butz & Clader Co., Allentown, Pa., \$199,000.

Bungalow, Cumru Township, Berks County, Pa. \$4,000. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, J. Henry Moyer, 721 Penn street, Reading, Pa. Brick and stone, 1 story, 40x56 feet, shingle roof, hot-air heating, acetylene gas plant. Contract awarded to W. A. Sharp, Reading, Pa.

Odd Fellows' Home, Pottstown, Pa. \$30,000. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, Odd Fellows' Home Association, Pottstown, Pa. Brick, stone and terra cotta, 3 stories, 40x136 feet, slag roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to William H. Wiand, Pottstown, Pa.

Church, Washington street, Reading, Pa. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, Zion Baptist Church, Reading, Pa. Brick, terra cotta and cut stone, 1 story, 30x72 feet, slate roof, hot-water heating, combination lighting. Contract awarded to John Fasnacht, Reading, Pa.

Double Residence, Bethlehem, Pa. \$7,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, William Steinmueller, Bethlehem, Pa. Brick, 2½ stories, 34x45 feet, slate roof, hot-water heating, gas and electric lighting. Contract awarded to Mack & Scharer, Bethlehem, Pa.

School, Harrisburg, Pa. Architect, C. Howard Lloyd, Harrisburg, Pa. Owner, Board of Education, Harrisburg, Pa. Brick and stone, fireproof, 2 stories, basement, 115x170 feet, slag roof (heating and lighting, reserved, separate bids), wire lath, metal frames and sash, damp-proofing. The lowest bid was submitted by J. W. Emery, 1524 Sansom street, Philadelphia.

Bungalow, Drexel Hill, Pa. Architect, Arthur C. Behr, 6017 Master street. Owner, George Siddall, 2713 George street. Stone, 2 stories, 30x45 feet, shingle roof, hot-water heating, oak floors. Contract awarded to Harry Davis, 5100 Westminster avenue.

Factory (add.), Spring City, Pa., \$12,000. Architect, J. V. Poley, Royersford, Pa. Owners, Spring City Knitting Co., Spring City, Pa. Brick, 3 stories, 45x67 feet, tin roof, steam heating, electric lighting. Contract awarded to Jacob Mowry, Royersford, Pa.

Bungalow, Phoenixville, Pa., \$4,000. Architect, J. V. Poley, Royersford, Pa. Owner, I. M. Buckwalter, 202 Washington street, Phoenixville, Pa. Brick, 1½ stories, 25x41 feet, shingle roof, hot air heating, gas and electric lighting. Contract awarded to Frank P. Huber, Parkersford, Pa.

Residence, Spring City, Pa., \$4,000. Architect, J. V. Poley, Royersford, Pa. Owner, F. H. Deisher, Spring City, Pa. Brick, 2 stories, 28x55 feet, shingle roof, hot water heating, gas and electric lighting. Contract awarded to Latshaw & Walley, Spring City, Pa.

Residence, Haverford, Pa. Architects, DeArmond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, F. J. Tolan, Crozer Building, Philadelphia. Frame, 2½ stories, 29x30 feet, shingle roof, electric light, hot air heating. Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

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Miscellaneous Construction News

Hotel (add.), Syracuse, N. Y. Architects, Esenwein & Johnson, Buffalo, N. Y. Owner, Onondaga Hotel, Syracuse, N. Y. Brick, steel and terra cotta, 12 stories, 64x132 feet, slag and tile roof (heat and light, reserved), metal lath, hollow tile fireproofing, water-proofing, metal doors and trimmings, elevators. Architects taking bids due March 26th. Doyle & Co., 1519 Sansom street, Philadelphia, are figuring.

Residence, Wilmington, Del. \$18,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, William C. Spruance, Jr., 1616 Broome street, Wilmington, Del. Brick, 2½ stories, 28x51 feet, wing 18x30 feet, slate roof, vapor heating, electric lighting, hardwood floors. Architect taking bids due March 30th. The following are figuring: W. D. Haddock & Co., 804 Orange street; A. S. Reed & Bro. Co., 815 Shipley street; W. Howard May, 1014 Rodney street, all of Wilmington, Del., and the following of Philadelphia, H. L. Brown, 1714 Sansom street; Thomas M. Seeds, Jr., 1207 Race street, and Milton W. Young, Overbrook, Pa.

Garage and Cottage, Greenwich, Conn. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, William Steel Gray, Greenwich, Conn. Brick and plaster, 2 stories, 32x100 feet, asbestos shingle roof, hot-water heating, electric lighting. Architect taking bids due March 23rd. The following are figuring: Thomas M. Seeds, 1207 Race street, Philadelphia; A. L. Malin, Norwalk, Conn.; F. St. George Smith, Greenwich, Conn.; W. J. Mertz, Port Chester, N. Y.

Residence, Wilmington, Del., \$28,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Russell H. Dunham, 1503 Franklin street, Wilmington, Del. Stone, 3 stories, 40x85 feet, slate roof, vapor vacuum heating, electric lighting, hardwood floors. Architect taking bids due April 1st. The following are figuring: Graham-Campion Co., Heed Building, and Metzger & Wells, Heed Building, Philadelphia, and W. D. Haddock & Co., 804 Orange street; A. S. Reed & Bro. Co., 815 Shipley street; W. Howard May, 1014 Rodney street, all of Wilmington, Del.

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From getting on the blink.

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Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try.

—Ex.

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NEW JERSEY Construction News

Residence, Moorestown, N. J. Architect, W. G. LeConey, Moorestown, N. J. Owner, E. Hollingshead, Moorestown, N. J. Brick and plaster, 2½ stories. Plans in progress.

Residence, Atlantic City, N. J. Architect, J. P. Kluges, 1012 Walnut street, Philadelphia. Owner, J. C. Slape, Bartlett Building, Atlantic City, N. J. Frame, 2½ stories, 30x40 feet, slate roof, hot-water heating, electric lighting. Builder, C. P. Tilton, 9 South Pennsylvania avenue, Atlantic City, N. J., is taking sub-bids.

Apartment House, Boardwalk and Iowa avenue, Atlantic City, N. J. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, D. Lamponi, Boardwalk and Pennsylvania avenue, Atlantic City, N. J. Brick and terra cotta, 5 stories, 120x60 feet, slag roof (steam heat and electric lighting, separate bids). Architect taking bids due April 1st. William R. Dougherty, 1610 Sansom street; George Hogg, 1634 Sansom street; Charles Gilpin, Harrison Building; A. Whitehead, Inc., 1624 Latimer street; Freund-Seidenbach, Bulletin Building, all of Philadelphia; William Beaumont, 12 South Tennessee avenue, and Thompson Bros., 14 South Ohio avenue, both of Atlantic City, N. J., are figuring.

Residence, Trenton, N. J. \$5,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, H. Humphreys, Cadwalader Place, Arenton, N. J. Brick, 2 stories, 24x30 feet, slate roof, hot-water heating, electric lighting. Architect taking bids due March 30th. The following are figuring: Ed. LaRue, 57 South Hermitage street; Charles Randall, 43 North Hermitage street; David Teitz & Son, Winfield; Hill & Son, 29 Chesnut street, all of Trenton, N. J.

Cottages (3), Skillman, N. J. \$90,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, N. J. State Board of Charities, Trenton, N. J. Brick, 2½ stories, slate and slag roofs, steam heating, electric lighting, composition floors. Plans completed. Owners will advertise for bids in one week.

Armory, New Brunswick, N. J. \$25,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey Armory Board, Trenton, N. J. Brick, 1½ stories, slag roof, steam heating, electric lighting. Plans about completed. Owners will be ready for bids in about three weeks.

Armory, Asbury, N. J. \$25,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey, Armory Board, Trenton, N. J. Brick, 1½ stories, slag roof, steam heating, electric lighting. Plans completed. Ready for bids.

Residence, Flemington, N. J. \$6,000. Architects, W. W. Slack & Son, American Mechanic Building, Trenton, N. J. Owner, E. B. Allen, Flemington, N. J. Hollow tile and stucco, 2 ½ stories, 30x40 feet, shingle roof, electric lighting, hardwood floors, heating not decided. Plans in progress. Architects will take bids in two weeks.

Store Building (alt. and add.), 101 and 103 South Warren street, Trenton, N. J. Architect, William B. Thines, Commonwealth Building, Trenton, N. J. Owners, Charles W. Carl & Sons, Front and Warren streets, Trenton, N. J. Brick and hollow tile, 2 and 4 stories, 40x110 feet, tin roof, steam heating, electric lighting, hardwood and tile floors. Plans in progress.

Residence, Wenonah, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Harry S. Paris, Wenonah, N. J. Frame and plaster, 2½ stories, shingle roof, hot-water heating, electric lighting. Architect taking bids due March 25th. The following

are figuring: W. D. Fletcher, Woodbury, N. J.; John L. Drummor, Wenonah, N. J.; Crater Bros., Pitman, N. J., and William Borg, Wenonah, N. J.

Residence, Riverton, N. J. \$5,000. Architect, private plans. Owner, Ralph Flower, care of Penn Mutual Life Insurance Co., 925 Chestnut street, Philadelphia. Brick, 2½ stories, 20x40 feet, slate roof, hot-air heating, electric lighting. Owner received bids March 23rd.

Hall Building, Moorestown, N. J. Architect, W. G. LeConey, Moorestown, N. J. Owner, I. O. O. F., Moorestown, N. J. Brick, 2 stories. Plans in progress. Details not decided.

Residence (add.), Princeton, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Judge E. Ambler Armstrong, Princeton, N. J. Stone, 2½ stories, slate roof, electric lighting, hardwood floors, extension to hot-water heating. Revised plans in progress.

Residence, Palmyra, N. J. \$5,000. Architect, J. C. Jefferis, 1001 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, shingle roof. Plans in progress.

Silk Factory, Bloomsbury, N. J., \$20,000. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown, Pa. Owner, John H. Meyer, Fourth avenue and Seventeenth street, New York City. Concrete and brick, 1 and 2 stories, 40x80 feet and 80x177 feet, engine room 42x60 feet, asbestos or slag roof, steam heating, electric lighting, concrete and wood floors. Architects taking bids. The following are figuring: J. A. Nagle and Butz & Clader, Allentown, Pa.; A. A. Bechtel, Easton, Pa.; Mercer County Construction Co., Trenton, N. J.

Residence, Chatham, N. J., \$6,000. Architect, J. V. Poley, Royersford, Pa. Owner, Mrs. Gertrude Hallman, Spring City, Pa. Brick, 2½ stories, 35x35 feet, slate roof, steam heating, gas and electric lighting, hardwood floors. Plans in progress. Owner will take bids in ten days.

Bank Building, Surrey and Atlantic avenues, Ventnor, N. J., \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owners, Ventnor City National Bank, Ventnor City, N. J. Brick and stone, 3 stories, 34x72 feet, slag roof, hot water heating, combination lighting, tile floors, new fixtures. Plans in progress.

Residence, Chelsea, N. J., \$35,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner's name withheld. Brick and stucco, 2½ stories, 36x76 feet, green slate roof, hot water heating, combination lighting, hardwood and tile floors. Plans in progress.

Residence, Richmond avenue, Ventnor, N. J., \$5,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, William Zimmer, 37 South Richmond avenue, Atlantic City. Brick and frame, 3 stories, 27x40 feet, slag roof, hot water heating, combination lighting, hardwood and tile floors. Ready for bids.

School (add.), Ventnor, N. J., \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owners, Board of Education, Ventnor, N. J. Brick and terra cotta, 4 stories, 55x80 feet, slate roof, steam heating, electric lighting. Owners taking bids, due April 6th.

Pier, between Cambridge and Cornwell avenues, Ventnor City, \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City. Owners, City of Ventnor, Ventnor City, N. J. Cast iron pilings, 1 story, dance hall, sun

parlor and dressing rooms, promenade space and toilets. Plans in progress.

Cottage and Garage, Dudley place and Ventnor avenue, Ventnor, N. J., \$5,000. Architects, Shull & Berry, Humphrys Building, Atlantic City. Owner, Andrew P. Johnson, 11 North Ohio avenue, Atlantic City, N. J. Brick, 3 stories, 30x32 feet, slate roof, hot water heating, combination lighting. Ready for bids.

Bungalow, Seaside avenue, Atlantic City, N. J., \$6,000. Architects, Shull & Berry, Humphrys Building, Atlantic City. Owner, Justice Siebert, Alcazar Building, Atlantic City. Brick and frame, 2½ stories, 26x47 feet, slate roof, hot water heating, combination lighting, hardwood floors. Architect taking bids. The following are figuring: John Ingersol, New York and Atlantic avenues; Philip G. Hannum, 16 North Georgia avenue; Charles S. Corson and W. G. Taylor & Son, Bartlett Building, all of Atlantic City, N. J.

Apartment House, Atlantic City, N. J., \$175,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner's name withheld. Stone, steel and concrete, 6 stories, 167x94 feet, tile roof, hot water heating, combination lighting, marble, tile and hardwood floors. Plans in progress.

Residence, Pennington, N. J., \$3,600. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, Mr. Alexander Scott, Chambers street, Trenton, N. J. Frame, shingle, 2½ stories, 24x34 feet, slate roof, vapor heating, electric lighting. Plans in progress.

Residence, Pennington, N. J., \$3,600. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, Ambrose Allen, 106 Culbertson avenue, Trenton. Frame, shingle, 2½ stories, 25x32 feet, slate roof, vapor heating, electric lighting. Plans in progress.

New Jersey

Contracts Awarded

Library (add.), Trenton, N. J. \$50,000. Architect, Edward L. Tilton, 32 Broadway, New York City. Owner, City of Trenton, N. J. Stone, 2 stories, 75x30 feet, slag roof, steam heating, electric lighting. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

Residence, Beverly, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, George T. Seckel, Beverly, N. J. Hollow tile and plaster, 2½ stories, shingle roof, hot-air heating, electric lighting. Contract awarded to George W. Shaner, Palmyra, N. J.

Residence, Greenwood avenue, Trenton, N. J. \$17,000. Architects, W. W. Slack, American Mechanics Building, Trenton, N. J. Owner, C. Edward Murray, 237 Greenwood avenue, Trenton, N. J. Hollow tile and plaster, 3 stories, 35x78 feet, tile roof, electric lighting, hot-water heating, parquet floors. Contract awarded to Burton & Burton, American Mechanics Building, Trenton, N. J.

Bulkhead, Water and Walnut streets, Camden, N. J. \$32,000. Engineer, L. E. Farnham, City Hall, Camden, N. J. Owner, City of Camden. Wood, 495x575 feet. Contract awarded to Cloud, Stiles & Work, Pennsylvania Bank Building, Chester, Pa.

Hospital, Vineland, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, New Jersey Training School, Vineland, N. J. Hollow tile and stucco, 2 stories, 95x120 feet, slag roof, electric lighting, steam heating. Contract awarded to Alex. Chambley, 243 South Tenth street, Philadelphia.

Apartment House, 142 South Kentucky avenue, Atlantic City, \$34,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City, N. J.

Owner, J. Mizen, 142 South Kentucky avenue, Atlantic City. Brick and stone trimmings, 3 stories, slag roof, hotwater heating, electric lighting, composition floors. Contract awarded to Thompson Bros., Bartlett Building, Atlantic City.

Hotel (alt.), South Arkansas avenue, Atlantic City, N. J., \$10,500. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner, Frank Ruffu, on premises. Brick, 3 stories, slag roof, steam heating, combination lighting, tile floors, new bar fixtures. Contract awarded to A. Siracusa, 115 South Mississippi avenue, Atlantic City, N. J.

Bungalows (5), Margate City, N. J., \$4,000.

Architect, Bertram Ireland, Bartlett Building, Atlantic City. Frame, 2½ stories, slate roof, hot water heating, combination lighting. Contract awarded to William Lear & Sigmond Co., Linwood, N. J.

Apartment House (Cordova), South Carolina avenue, Atlantic City, \$53,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner's name withheld. Stone, steel and concrete, 5½ stories, 60x93 feet, tile roof, hot water heating, combination lighting, marble, tile and hardwood floors, one passenger and one freight elevator. Contract awarded to P. G. Hannum, 16 North Georgia avenue, Atlantic City.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

C. V. Kelly (O), 3661 Midvale avenue. P. H. Kelly (C), 3661 Midvale avenue. Cost, \$5,000. One dwelling, stone, 2 stories, 16x60 feet, 3661 Midvale avenue.

Samuel F. Weihler (O), 417 Bulletin Building. Cost, \$18,000. Theatre, brick, 1 story, 73x98 feet. Cost, \$20,000. Hall, 45 West Cheltenham avenue.

Baptist Orphanage (O), Fifty-eighth and Thomas avenue. H. E. Grau Company (C), 1707 Sansom street. Cost, \$15,000. Cottage, stone, 3 stories, 28x26 feet, Fifty-eighth and Thomas avenue.

A. Kaplan (O), 2024 South Ninth street. Cost, \$2,500. Store and dwelling, brick, 2 stories, 16x59 feet, Ninth and Shunk streets. Cost, \$46,000. Twenty-three dwellings. Cost, \$2,000. One dwelling. Cost, \$2,000. One dwelling.

Morris Rosen (O), 2009 South Eleventh street. Louis Sigel (C), 8405 Eastwick avenue. Cost, \$9,600. Six dwellings, brick, 2 stories, 16x40 feet, Eighty-fifth and Gibson avenue.

Thomas Mills Brothers (O), Eighth and Thompson streets. Turner Concrete Steel Company (C), 1713 Sansom street. Cost, \$20,000. Manufacturing, brick, 4 stories, 64x22 feet, 1302 North Perth street.

Jacob Korman (O), 600 Wesley avenue. Cost, \$12,000. Eight dwellings, brick, 2 stories, 114x36 feet, Ontario and Almond streets. Cost, \$4,400. Store and dwelling.

George Seebold (O), 131 East Wyoming avenue. Cost, \$8,800. Four dwellings, brick, 2 stories, 16x45 feet, Wyoming avenue and A street.

Ed. L. Seeds (O), 1001 Divinity street. Cost, \$20,000. Apartment house, brick, 3 stories, 40x100 feet, Forty-fifth and Pine streets. Cost, \$10,000. Apartment house. Cost, \$80,000, three apartment houses. Cost, \$22,000. Apartment house.

George F. Heath (O), Eighty-seventh and Bartram avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 16x36 feet, Eighty-seventh and Bartram avenue.

M. H. Riegel (O), 5513 North Second street. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x38 feet, 139 Wentz street. Cost, \$5,000. Two dwellings.

Margolin & Block (O), Fifth and Walnut streets. G. J. Reich (C), 1112 Loudon street. Cost, \$30,000. Theatre, brick, 1 story, 30x100 feet, Susquehanna avenue and Hope street.

J. H. McClatchy (O), Land Title Building. J. T. Sanders (C), 5111 Walton avenue. Cost, \$6,500. Dwelling, brick, 3 stories, 34x24 feet, Westview and McCallum streets. Cost, \$6,500. Dwelling. Cost, \$13,000. Two dwellings. Cost, \$13,000. Two dwellings. Cost, \$6,500. One dwelling. Cost, \$6,500.

One dwelling. Cost, \$6,500. One dwelling. Cost, \$13,000. Two dwellings. Cost, \$6,500. One dwelling. Cost, \$13,000. Two dwellings.

C. L. Betts (O), 6811 Quincy street. W. H. Eddleman (C), 453 Green lane. Cost, \$3,400. Garage, stone, 2 stories, 25x26 feet, 6811 Quincy street.

J. L. Wiza (O), 4444 East Thompson street. Cost, \$8,400. Six dwellings, brick, 2 stories, 16x42 feet, 4416 Almond street.

C. E. Biddle (O), 2001 East Cheltenham avenue. Cost, \$4,200. Fourteen dwellings, brick, 2 stories, 12x30 feet, 6308 Limekiln pike.

W. A. Patterson (O), 5333 Vine street. Cost, \$4,500. Two dwellings, brick, 2 stories, 16x30 feet, 524 North Fifty-third street.

J. J. Geicke (O), 7101 Tulip street. Cost, \$6,500. Five dwellings, brick, 2 stories, 14x36 feet, Princeton and Keystone streets.

Wilson & Weiler (O), York road and Wagner street. Cost, \$14,000. Seven dwellings, brick, 2 stories, 14x25 feet, Sydenham and Rockland streets. Cost, \$4,000. Two dwellings.

J. Rotterman (O), Third and Greenwich streets. Cost, \$8,500. Apartment house, brick, 3 stories, 18x60 feet, Seventh and McKean streets.

J. E. Harding (O), 4714 North Third street. G. Isles Company (C), Lansdale, Pa. Cost, \$4,400. Two dwellings, stone, 3 stories, 16x43 feet, Sentner and G streets.

W. Rowland (O), Dexter and Lyceum streets. Cost, \$9,000. Four dwellings, brick, 2 stories, 16x44 feet, Dexter and Lyceum streets.

D. H. Stroud (O), 3340 North Broad street. Cost, \$1,500. One dwelling, brick, 2 stories, 16x30 feet, Tenth and Goodman streets. Cost, \$9,000. Seven dwellings.

J. Werner (O), 2644 East Ontario street. Cost, \$2,000. One dwelling, brick, 2 stories, 16x42 feet, Shellner and Thompson streets. Cost, \$1,900. Store and dwelling. Cost, \$26,000. Twenty dwellings.

George Brooks (O), 3445 Richmond street. Cost, \$12,000. Eight dwellings, brick, 2 stories, 14x40 feet, Ontario and Richmond streets.

Small ideas, small methods, small men are becoming antiquated. This is the day of the broad outlook and big doings.

Ever try a "Want" ad. in The Guide? Gets the goods every time.

Alterations and Additions

Harrison Brothers (O), Thirty-fifth and Gray's Ferry road. Barclay White Company (C), Perry Building. Cost, \$4,000. Tower, Thirty-fifth and Gray's Ferry road.

Hess Estate (O), 924 Walnut street. Baizley Iron Works (C), 514 South Delaware avenue. Cost, \$1,000. Factory, Oxford and Mascher streets.

Thomas Potter & Sons (O), Second and Erie avenue. H. Brocklehurst (C), 512 West Norris street. Cost, \$2,300. Manufacturing building, Second and Erie avenue.

Berg Brothers (O), Tenth and Market streets. Fidelity Const. Co. (C), Heed Building. Cost, \$4,000. Store, Tenth and Market streets.

E. Goodman (O), Bethlehem pike. G. S. Roth & Sons (C), 230 East Graver's lane. Cost, \$4,000. Dwelling, Bethlehem pike.

Louis Entine (O), 3058 North Twenty-third street. M. Lenaman (C), 2937 Bonsall street. Cost, \$2,500. Store and dwelling, 3101 North Twenty-fourth street.

Samuel Mitchell (O), 37 North Fifty-eighth street. Cost, \$1,000. Store and dwelling, 19 North Fifty-ninth street.

A. M. Malyaulian (O), 126 South Sixtieth street. Cost, \$1,000. Dwelling and store, 609 South Sixtieth street.

Church of the Redemption (O), Fifty-sixth and Walnut streets. Bowers Brothers Company (C), Real Estate Trust Building. Cost, \$2,700. Church, Fifty-sixth and Walnut streets.

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I believe in the goods I am selling
Because I have tried them, and know;
I believe in the facts I am telling
Because I am certain they're so;
I believe in the faith of the buyer,
I believe in the honor of men,
I believe if I'm square, they'll desire
To deal with yours truly again!

I believe I am wise in proclaiming
The fact that I'm out for the trade,
I believe there is wisdom in naming
The merits of goods I have made.
I believe that vim, vigor and push'll
Pay mighty good profits to me
So my light isn't under a bushel
But up where the people can see!

I believe in good copy with "kick" in
For lifting my business ahead,
For making a buyer's pulse quicken
With proof I'm a live one—not dead!
I believe more in joy than in sorrow,
In sunshine much more than in gloom,
I believe in To-day and To-morrow,
For Yesterday's gone to the tomb!

I believe in the work I am doing,
I believe in the paper I use,
I believe in the end I'm pursuing,
I believe that the hustler can't lose,
I believe in the art of the printer,
The ads that are bringing me pelf,
And always, through summer and winter,
I stoutly believe in Myself!
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Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The American Gypsum Company, Port Clinton, Ohio, held its annual meeting of stockholders a few days ago, when the following officers and directors were elected: President, J. H. McCrady, Braddock, Pa.; vice-president, F. J. Griswold, Port Clinton; secretary and treasurer, J. D. Davis, Cleveland; Ed. McCrady, Braddock, Pa.; Charles Miller, Cleveland; E. D. Gilleland, Wheeling, W. Va.; directors. E. J. Griswold was reappointed general manager for the coming year, and Arthur Black general sales manager. The outlook for this year is one of the most promising in the history of the plaster business.

**A new company, which will manufacture ganister rock, sandstone, etc., has been organized at Altoona, Pa., by the following: W. Lovall Baldrige, Mary V. Baldrige, Laura S. Baldrige, Jean Baldrige Sholly, Eleanor Baldrige, Hanna and Charles Malcolm Baldrige, E. R. Baldrige & Co.

**The Eastern Paving Brick Manufacturers' Association met in convention at Bradford, Pa. The first day's session was devoted to reports of the various officers and the election of those who were to serve during the coming year. C. E. Foster, of Bradford, Pa., was re-elected president; J. B. Hammond, of Bolivar, Pa., first vice-president; C. A. Young, of Pittsburgh, Pa., second vice-president; G. W. Lenkerd, of Indiana, Pa., secretary, and C. P. Mayer, of Bridgeville, Pa., treasurer. The following men spoke during the session: Hon. H. R. Habgood, Will P. Blair, secretary of the National Paving Brick Manufacturers' Association; E. J. Herman, state organizer of the Pennsylvania Good Roads Association; C. P. Mayer, of Bridgeville, Pa., who spoke on "The Uniform Contract;" M. E. Gregory, of Corning, N. Y., on "The Methods of Testing and Inspection of Paving Brick;" G. W. Lenkerd, secretary, on "Cost Accounting;" E. F. Bannon, city engineer of Hornell, N. Y., and J. B. Hammond, of Bolivar, Pa. A banquet at the Hotel Holley closed the convention, which was one of the largest ever held in Bradford, and one of the most enthusiastic paving brick meetings ever held in this country.

**Theatre Specialty Manufacturing Company has moved from the Heidelberg Building to 218 West 42d street, New York City. This concern sells a general line of theatrical and moving picture equipment, projection machines, etc., for moving picture theatres, and for educational and trade purposes. In connection with these lines the company is building a demonstrating room in the new

offices. A scenic painting department is also conducted.

**C. E. Knox, who was the consulting engineer for the elevator installation of the Woolworth, Municipal and Metropolitan buildings, has been appointed consulting engineer for the elevator installation in the Equitable Building, the largest structure in the world, by the owners, the Equitable Life Assurance Society. This will be one of the largest elevator installations ever made. The total elevator trackage, according to present plans, will be approximately 20,240 feet, or nearly four miles. The speed of these elevators was originally figured out at about seven and one-half miles an hour, or about equivalent to the speed of an average trolley car. These elevators will serve a floor space of nearly 45 acres, or at least 15,000 people daily.

**Barber Asphalt Paving Company has offered a prize of \$100 for the best paper written by a member of the graduating classes of the leading engineering schools, on the subject of "Asphaltic Material for Highway Construction." The prize is offered to encourage investigation of methods and materials of road and street construction, and to interest engineering students in highway problems. The paper and its conclusions may be based upon service tests and the lessons of experience; the physical qualities or chemistry of asphalt; or it may combine any two of these lines of investigation. The length of the paper is limited to 3,000 words and all manuscripts must be received not later than June 1, 1914.

**Atlantic City has been chosen for the seventeenth annual meeting of the American Society for Testing Materials, on June 30-July 4. Headquarters will be at the Hotel Traymore. Preliminary notices will soon be sent out.

**William C. Weston, architect, Birmingham, Ala., has opened a branch office in the Peoples' Bank Building, Room 7, Mobile, Ala. The office is in charge of John E. Davis, who would appreciate manufacturers' samples and trade catalogues.

**National Association of Building Owners and Managers will convene at Duluth, July 14 to 17.

**The Efficiency Society (Inc.) will hold the first national efficiency exhibition and conference at the Grand Central Palace, New York City, April 4 to April 11, inclusive. Interesting programs are being prepared for each session of the conference.

**Berger Manufacturing Co. 22d street and 11th avenue, New York City, announce that S. K. Stearns, late representative of the

Eller Manufacturing Co., metal ceiling contractors, is now special representative of the Berger Company's metal ceiling contract department.

**Harry S. Maddock, president of the Thomas Maddock & Sons Co., Trenton, N. J., died of pneumonia, at his home in Trenton, January 24. He was 52 years old. He was the son of the late Thomas Maddox, a pioneer in the manufacture of pottery. He is survived by his son, Harold S. Maddox, his mother, two brothers and a sister.

**The losses by fire in the United States and Canada during the month of February, as compiled by "The Journal of Commerce and Commercial Bulletin" aggregate \$21,744,200, as compared with \$23,204,700 in January and \$22,084,000 in February last year. The losses thus far this year reach a total of \$44,948,000, as against \$42,277,850 credited against the same time last year. There were during the short month of February no less than 353 fires credited with causing an estimated property damage of \$10,000 or over in each instance. The following brief classification according to their destructiveness will afford an interesting study:

Estimated Loss—	No. of Fires.
\$10,000 to \$20,000.....	118
\$20,000 to \$30,000.....	71
\$30,000 to \$50,000.....	51
\$50,000 to \$75,000.....	41
\$75,000 to \$100,000.....	18
\$100,000 to \$200,000.....	36
\$200,000 and over.....	18
Total	353

**Building permits totaling \$37,152,920 in value for 56 cities, were issued in January, 1914, according to "The American Contractor," as compared with a total of \$40,361,494 for the corresponding month of 1913. New York City reported a decrease of 12 per cent., Chicago a decrease of 22 per cent., Philadelphia a decrease of 14 per cent., St. Louis an increase of 38 per cent., Pittsburgh an increase of 204 per cent.

**Charles Warner, the Wilmington, Del., builders' supply man, believes this is an ideal time for vacations. He is at present in Bermuda.

**Co-operation on the part of the various organizations interested in the enforcement of the new Pennsylvania law providing for separate bids on plumbing, heating, ventilating and electrical work on public buildings has been secured through the appointment of a joint conference committee. The associations which have delegate representation include the Pennsylvania Master Steam and Hot Water Fitters' Association, The Pennsylvania State Association of Master Plumbers, the Electrical Contractors' Association of Pennsylvania and the Philadelphia Sheet Metal Contractors' Association. At the organization of the joint conference committee, William P. Thompson, who is president of the Pennsylvania Master Steam Fitters' Association, was elected chairman, and M. G. Sellers, secretary of the Pennsylvania Master

(Continued on page 197.)

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Irving Dillon.....Editor

PHILADELPHIA, PA., MARCH 25, 1914.

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Editorial Comment

"The Guide" is called upon to chronicle the death of its founder, Mr. John N. Gallagher who passed away one day last week. Mr. Gallagher conducted "The Guide" for more than a quarter of a century with the most conspicuous ability, energy and fidelity to exalted journalistic ideals. A journalist by training, identified for many years with "The Philadelphia Record," Mr. Gallagher brought to his work as editor of "The Guide" a well-stored intellect and the fruits of a wide and varied experience. He had many and warm friends in the real estate and building trades; retired from "The Guide" some four years since with the respect and esteem of a wide circle of friends and former business associates and passed away sincerely regretted by all who knew him well enough to estimate properly his place in the community and in the profession to which he dedicated his energies. It is no small task to so conduct a publication issued consecutively over a period of twenty-five years as to win the lasting respect and regard of a large and exacting clientele. This John Gallagher did and in this dwells his truest and most fitting obituary.

* * *

We indulged in certain references in this column last week to the convention of the National Association of Builders' Exchanges, held at Louisville.

One of the features of the convention but lightly touched on in last week's "Guide" was the address of President H. L. Lewman. Mr. Lewman's remarks were at once practical and timely.

Beginning with a statement that the last meeting endorsed a reform movement to accurately define and standardize, wherever practicable, plans and specifications in order to eliminate unnecessary risks, hazards and uncertainties in construction contracts; to reduce the cost of improvement to the owner; to give the contractors and surety companies a proper understanding of the obligations they assume; to establish contracting and suretyship on a more stable and definite basis; to provide for the settlement of differences by some equitable constituted authority and to establish building contracts on such a basis that banks and commercial institutions may intelligently determine the amount of credit to be extended to owners and contractors and to eliminate the present uncertain condition of credits based upon such contracts, Mr. Lewman launched into a subject that had the delegates cheering a number of times.

* * *

"The present system employed in the

preparation of contracts and specifications," he said, "is a relic of antiquity and is an outgrowth of the practice years ago when the builder was merely a mechanic. It brings about a subserviency upon the part of the contractors, which is highly detrimental to the interests of the building business, but more important still, it greatly restricts and stifles competition. The consequences of a system of such uncertain provisions are bound to be harmful both to the owner, the contractor and to the allied interests. Under this system, or rather lack of system, employed in construction, a specification lacking definite description, filled at every crook and turn with arbitrary and incomprehensive clauses, is prepared and upon this the contractor is asked to make a bid. He is immediately faced with the proposition that his interests will be wholly dependent upon the manner in which the authority is exercised, and what ought to be a close, careful and accurate estimate based upon known facts, becomes a question of his estimate of the personal character and disposition of the supervising officer. In this age which has produced such effective business machines, working with marvelous precision, is it not to be regretted that we are still struggling along with such primitive methods, which are wholly inadequate for present day practice?"

* * *

Mr. Lewman called attention to the accurate and explicit designation of the various article in trade and said that "through the entire field of commerce, except the construction business, we find this advancement in the clear, accurate and explicit description of the different articles traded in." Mr. Lewman further called attention to the action of the National Association of Credit Men in endorsing the movement to put contracting upon a more equitable basis through the adoption of resolutions providing for the regulation of the drastic and autocratic power of the architect. He also called attention to the address of Sullivan W. Jones, of the architectural firm of Palmer, Hornbostel & Jones, of New York, who declared that in the production of these important documents—the plans and specifications—the architect's present day methods are wholly obsolete and totally inadequate to the tremendous complex contracting operations, involving as they do large amounts of capital.

* * *

"As the lines are now drawn," declared Mr. Lewman, "it appears that the real issue in this controversy is whether the architect shall be the final interpreter and judge without appeal of the plans and specifications which he creates for the use of commercial interests, or whether the building and commercial interests, who based their bids upon what the plans and specifications actually

show, shall have protection after the price is determined, by providing for an equitable and reasonable construction of what is shown on their face, and not force upon the builders conditions that permit the rendering of a decision contrary to the actual facts and deny right of appeal to arbitration of courts. In other words, the specifications should be construed on the basis of what they actually show and not be left open to uncertainties and opportunities for fraud by providing for future interpretation. Remember that the courts have held that there can be no appeal from the decision of an architect in a contract which makes the architect the final judge of materials and of the interpretation of plans and specifications. A significant fact is that over fifty per cent. of the cases in court involving the interpretation of construction contracts, the engineer or architect strenuously resists every effort to bring out the merit or equity of any question, but attempts to shield himself behind the arbitrary powers reserved by him in the specifications. Following Mr. Lewman's address, Mr. Miller, of Cincinnati, moved the adoption of his address as the sentiment of the convention and that copies be printed and circulated generally.

* * *

That specification writing as at present conducted presents a field in which there is lots of room for improvement no one at all familiar with the facts will attempt to dispute. Many of the clauses, commonly in use in papers of this kind,—while in the main sensibly and often generously interpreted,—are so drawn as to place the contractor at the mercy of the architect in charge an eventuality entailing considerable vexation of spirit if not heavy loss in cases where young and inexperienced men are called upon to supervise extensive and important work. "The Guide" has touched upon this question of over-reserved and one-sided specifications on more than one occasion in these pages. The time seems to us to be especially propitious for such a conference and agreement as between the architects and the building fraternity as will effectually remove room for disagreement under this head. The form of specification that permits the young practitioner in architecture to foist his mistakes and deficiencies upon the man who gets the contract under cover of certain elastically-worded clauses and verbal reservations is certainly one that calls for amendment and change. Only the other day we heard one of the most prominent of local builders say in reference to a certain architect: "You can bid with absolute safety on any work he controls regardless of specifications. The man knows his own business, understands the difficulties of the builder and stands ready to concede you anything within reason if you give him a first-class job." Broadly interpreted we suppose that the architect in question is a good business man with the faculty of knowing how to handle men. To get vital essentials he is prepared to concede the non-essential and unimportant. In which respect he differs

radically from most of the young men "fresh from school," who exaggerate the importance of the non-essential not infrequently missing altogether the vital and the necessary. This specification evil merits serious consideration. Let us hope that as one result of the Louisville Convention it may receive the consideration its merits.

TRADE NEWS AND GOSSIP.

(Continued from page 195.)

Steam Fitters' Association, was elected secretary. The treasurer is H. G. Kepler. Necessary counsel will be engaged for legal advice and counsel. In a notice sent out by the State Association of Master Steam Fitters, a number of court decisions under the new act are cited which show the effectiveness of the new law. The circular states that a recent canvass of the state would seem to indicate that the law is being generally observed, but the members are urged to proceed on educational lines, having recourse to legal process only when absolutely necessary.

**Recent tests of the air in the moving picture theatres, which were being made by the Twentieth Century Club, of Cincinnati, showed in one case 14 parts of CO₂ in 10,000. In another theatre, 12 parts of CO₂ were indicated, while in a third theatre, the proportion was 11½ parts in 10,000. The best ventilated theatre had, according to the instruments, 9 parts of CO₂ in 10,000. The members of the club, which is a woman's organization, were accompanied by City Chemist Clarence Bahlman.

**W. W. Inches, of the Thomas Moulding Brick Co., reports the fire brick business is especially good at this time and that prospects indicate that 1914 will be a banner year.

**Reports from the district sales manager, L. Alden Smith, of the Savannah office of the Lehigh Portland Cement Co., state that the new office is now definitely settled and the machinery of business is running smoothly successfully.

**The first of February, R. S. Ward, of the Beaver Board Co., Buffalo, N. Y., sailed for South Africa. The Beaver Board Co. has representatives in South America, Australia and Central America, a strong branch office in London and distributing points in all the chief markets and ports. The demand in South Africa has made the sending of this representative necessary. The new representatives will go, not only to establish new dealers, but to work with dealers who are already handling Beaver Board.

**At the annual meeting of the Association of American Portland Cement Manufacturers, held recently, the office of Honorary Member was created. In the sense of "Honor to whom honor is due," R. W. Lesley, of Philadelphia, has been elected the first honorary member of the association.

**George C. Dawes, of the Alpha Portland Cement Company, was most sanguine that the barrelage of "Alpha" in 1914 would exceed that of last year. This prediction is based upon the fact that the shipments into

Philadelphia and surrounding territory during January equaled those of January, 1913, while February shipments were heavier than those for the same period last year.

**It will be good news to all the friends of Wallace King, Jr., the New York manager of the Giant Portland Cement Company, to know that he is again "in the saddle." Overwork made it necessary for Mr. King to take a well-earned rest, which has given him renewed vigor for the busy season to come.

**Officers of the National Brick Manufacturers' Association for the ensuing year are: President, Eben Rodgers, Alton, Ill.; first vice-president, O. P. Mayer, Bridgeville, Pa.; second vice-president, Charles J. Deckman, Cleveland, O.; treasurer, John W. Sibley, Birmingham, Ala.; secretary, Theodore A. Randall, Indianapolis, Ind.; assistant secretary, A. M. Wallace, Indianapolis, Ind. D. V. Purington, of Ocean Springs, Miss., member of the committee on technical investigations, whose term expired yesterday, was also re-elected. The new board of directors will consist of the officers of the association and its past presidents.

**Herbert E. Dorey, who has been superintendent of the United States Gypsum Co.'s plant at Great Falls, Mont., left that place for Fort Dodge, Ia., a few days ago, and has been succeeded by H. W. Reel, of Columbus, O., who has had considerable experience in this line of work.

RELATIONSHIP BETWEEN ARCHITECTS AND THE MASSACHUSETTS DISTRICT POLICE.

Certain states in this country seem to have been more favored than others in regard to the inspection of public buildings and it is unfortunate that we find that Massachusetts has been, for some time, the target for considerable comment by her sister states. In that state there has been at times a sharp diversity between architects and the district police, especially in connection with the erection of theatres and moving picture halls, mainly on the subject of ventilation. According to a ruling of the district police, ventilation must in all cases be downward, which requires the admission of fresh air at the top of the auditoriums and the removal of the foul and vitiated air at the floor level.

This is a requirement which has been in vogue for a long time, but which is just now a subject of considerable discussion among architects, engineers and theatre owners throughout the country. In the case of a theatre, for instance, with balconies and having a seating capacity of 700, the foul and devitalized air from such balconies must be carried downward upon the audience to be inhaled over again before it passes out through the vent ducts at the floor level. Where architects and engineers have been criticized by their clients for this practice, they have appealed to the district police for a ruling that would permit upward ventila-

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tion, such as is in vogue in many other progressive states.

It has been demonstrated to the district police that under such conditions, we are unable to satisfy our clients and the public.

Mr. Dooley, it will be remembered, had no books but the Bible and Shakespeare. Asked if he read them constantly, he replied, "I nivr rade thim, I use them for purposes of defince. They stand between me and all modern progres. I built thim up into a kind of a breakwother, and I set behind it calm and contint while Hall Caine rages with-out."

The writer has erected several motion picture theatres equipped with upward ventilation, in which the fresh air is admitted to the auditorium through direct-indirect radiators, arranged along the walls, and the foul or devitalized air removed at the ceiling by autoforce air pumps, with excellen success, both from an engineering and economic standpoint.—Linus G. Foster, in "Heating and Ventilating Magazine."

BUILDING HEIGHTS.

New York, or more properly Manhattan, has nine buildings exceeding 400 feet in height as follows:

Woolworth Building	750 feet
Metropolitan Life Building.....	700 feet
Singer Manufacturing Company Building	612 feet
Municipal Building	560 feet
Bankers' Trust Building	539 feet
New Equitable Building	485 feet
Adams Express Company Building	424 feet
Times Building	419 feet
West Street Building	404 feet

ALL-FACE BRICK FACTORY BUILDINGS

Better Grade of Brick Now Being Favored by Architects and Contractors Where Structures of This Nature Are Erected on Exclusive Sites.

It is a noticeable but pleasing fact that the use of face brick and other materials of good quality are now being used quite extensively in the construction of factory buildings. Especially is this true in instances where these buildings are constructed in exclusive quarters, with the surroundings of such a nature that nothing but the best of materials will produce that harmonious effect which is so desirable.

There are many factory buildings constructed every year where the use of face brick is not even considered—and, possibly, rightly so. Where these buildings are constructed in regular factory districts it cannot be expected that the owners will decide in favor of face brick for their building. The surrounding buildings, in such instances, are usually built of common brick, and as an investment it would be folly for a builder to use a better grade of material than has been used in the buildings already located in such districts.

To such districts as are described in the preceding paragraph, the dealer in common brick should be able to go unmolested in soliciting orders. The face brick dealer, while not neglecting to take advantage of every opportunity to sell his goods, should find a better field of activity, for it is certain that in such districts he will find much opposition to the use of face brick.

But, when it is proposed to build a factory in the suburb of a city or in a small town, where factory buildings are scarce, the face brick dealer should lose no time in getting in his arguments in favor of face brick. For it is in such cases that face brick should be used.

A manufacturer who is proud of the building that is to house his business should be a good prospect for face brick dealers. A handsome building, constructed entirely of face brick, is a monument to the community in which it is erected.

There is nothing new or untried about face brick buildings, and manufacturers are prone to accept any arguments in their favor without questioning the veracity of brick salesmen. Brick has been and is to-day the most popular material with builders of factory buildings. To convince a man that he should use brick for a building of this nature is an easy matter; to convince him to use face brick is a little more difficult. But with the high class of salesmen now in the brick business, this should be accomplished.

In the outskirts of every large city is to be seen the result of attempts to introduce face brick into the factory building class. While these brick may not be of the most expensive variety, nevertheless they are face brick and show that the tastes of the architects, contractors and builders have been ele-

vated. And surely a building constructed of face brick, even though of the cheaper kind, is an improvement over the common brick buildings, of which there are great numbers in the factory districts of our large cities.

There should be little opposition to a campaign that might be started in behalf of all-face brick factory buildings. The architects of the country should be among the first to approve of this plan, as they usually favor the most artistic material when consulted as to the relative merits of those that have been called to the attention of the prospective factory builder.

Contractors may not as readily appreciate the increased attractiveness of a structure in the erection of whose walls nothing but face brick has been used. A huge building, massive in size and height, appeals more to the average contractor than does one in which the materials have been selected because of their attractive features. He thinks in big numbers, of the amount of material used and the number of floors the building is to have, rather than of the color and texture of the brick, the harmonizing effect of the mortar colors and of the beautiful picture that will be presented when the building is completed. But even among the contractors, the opposition to all-face brick buildings to be used for factory purposes is on the decline. Men with more esthetic tastes are getting into this line of business and as a natural result, they welcome a change where the beautiful and charming qualities of the materials they have the opportunity to use are brought into play.—"Material Record."

EASY ENOUGH.

They were joint owners of an apartment house, and one day the junior partner sought his colleague in some trepidation.

"The janitor wants \$10 more per month or he'll leave. I hate to give up the money, but we can't spare him."

The senior partner disappeared and returned in a few moments.

"It's all right," said he. "I've satisfied him and it didn't cost us anything."

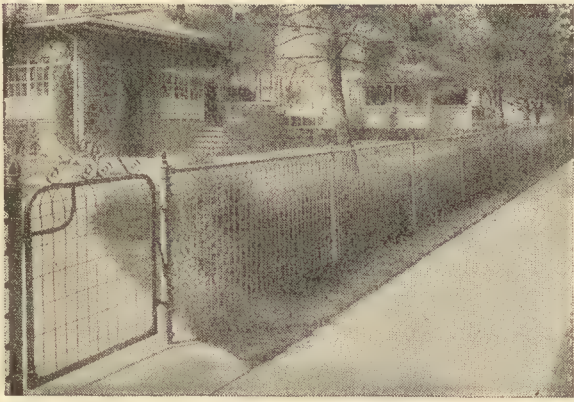
"How's that?"

"The janitor is now the superintendent."

"Good work!" declared the junior partner. "But why didn't you make him superintendent in the first place?"

"Because," answered the senior member, "I knew he'd want a promotion eventually. Every man wants a promotion some time, and to my mind, a good man deserves one."—"Judge."

An advertisement should stick out like a sore thumb without being so sensitive.—"Novelty News."

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MITCHELL BROS.
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Bell, Locust 812 Keystone, Race 29-84

TO THE BUSINESS OWNER.

To-day is yours, but to-morrow belongs to The Man Behind. He's back there pushing and struggling and fighting on; he's gritting his teeth and keeping in action, so he's in better shape than you. The exercise of effort is keeping him alert, thinning down his limbs, pasting his muscles tighter to the bone, twisting gristle into meat. Look out for him.

You haven't worked at full vigor of late. There's an overcoat of fat growing around your intellect.

If he ever catches up to you and it comes to a stern, hard contest, you won't last. Activity doesn't tire—it hardens, gives resisting power, develops the wind, teaches one to stay when the tussle becomes intense. There's many a man in your office carrying the undeveloped seed of achievement in his makeup. He's fertilizing it with his ambition, and some day results are going to grow out of it. See to it that you get the harvest.

The time may come when you'll need loyalty as badly as the Texas bad man needed his "Colt." He left it at home on the piano, but the sheriff couldn't afford to overlook the chance of getting him at a disadvantage.

Your competitors are always watching and waiting; they're seeking an opportunity to "get in." You may have to rely for survival upon the fidelity of the man behind. There are two sides to every question, and like the flapjack, the bottom gets on top in the turnover. Your staff only owes you that which you have bought. If you've taken advantage of circumstances in his hour of weakness, depend upon it, when somebody else offers him more money, no man in your employ will stick—he isn't in your debt by one throb of consideration. Lack of appreciation is the incubator which hatched thousands of employees into employers. Injustice has driven into independence half the successful men in America.

Forests die out unless there is a constant growth of saplings; they can only be perpetuated by the seeds which drop from the trees that have already matured. Don't forget that your young men are seed; that they are your insurance against the future; that you must look to them for the timber of tomorrow. Take care of them. You may not need them now, but as the years pass and your own powers fail, and you can no longer stand the gaff as to-day, the skill and knowledge and confidence which you breed into those surrounding you now will protect your past efforts and warrant the continuance of prosperity for your family.

Hold on to your sound boys; they're worth more to you than anyone else, because they are more valuable to every other employer than you. When they go away they are like bees, covered with fructifying pollen. They fly off with the ability they gained from you and use it against you. When they enter another office, they handicap you by their withdrawal and strengthen your rivals with their knowledge of your secrets. When you

replace them, you must pay as much for their successors, break them in, and afterwards give battle to the very strength that you allowed to desert your flag.

Carnegie is giving away libraries because he was shrewd enough to make every potential antagonist his partner. He drove his bargains when their strength was not at its fullest pitch, and he put them under the yoke of mutual interest while their brains were freshest and could tone up his staling viewpoint—he made his own percentage smaller, but he magnified his total profits so tremendously that a part of twenty men's earnings far exceeded what his lone efforts would have brought, had he tried to hog it all.

A small interest at an early enough moment creates a life time ally; it buys you a man's play-time and night-time thoughts, all his plans and ambitions. It creates a burden-sharer who will lift cares, the shifting of which is worth far more than the cost. It gives you a sense of future security, unknown to the lone operator, who lives in the constant dread that he will be the hardest pressed when he is least efficient.—Herbert Kaufman in "The Digit and Painters' Review."

A BRICK TOWN.

The inhabitants of the seaport town of Hull, in Yorkshire, from the early part of the fourteenth century traded extensively with the Flemings, and it is in this town and its environs that we find to-day so many interesting remains of old-time brickwork, says the "Contract Record and Engineering Review." According to Bishop Leland, the historian, Hull, in the time of Richard II, was completely a brick-built town. In the quaint English of his day we read: "And yn this tyme the Towne was wonderfully augmented for building and was enclosed with Diches and the Waul begun, and yn continuance ended and made all of Brike as most part of the Homes of the Towne at the tyme was." Sufficient evidence surely, that by this date the townspeople had appreciated the value of clay products as a building material of sovereign value.

One of the best examples of fourteenth century brickwork is found in Holy Trinity Church. This is one of the largest parish churches in England, its area being 20,040 square feet. The building is not entirely of brick, the west end being of stone, but that portion of the church which is built of brick is in a wonderful state of preservation. Prominent in this respect is a buttress on the south side, east of the south transept. The sanded face of the old hand-made brick has disappeared, and many of the brick show signs of weathering, which considering the hundreds of years of exposure, is excusable. The size of the bricks in this particular section average nine inches by two and one-quarter inches and are of a dull brownish red color, the mortar joints being of a dark grayish green averaging three-eighths inch to one-quarter inch, the vertical joints being, as a rule, slightly narrower than the horizontal ones.

In a part of Hull we come across Little Lane, connecting Blackfriars' Gate and Little Humber street, which, up to the seventeenth century, was the only entrance to the town from the landing place on the River Humber. It is less than seven feet wide. The bricks average nine and three-quarter inches by two inches by four.

SPACE FOR A SMILE.

Charlie Ackerman, the good-natured hustling secretary of the Bay City, Mich., Local, sends along the following:

Casey goes into Snyder's Tin Shop and the conversation runs something like this:

"What's Ave trough work?" says Casey.

"Ten cents a foot," says Snyder.

"But Hollagan," says Casey, "down on the corner, puts it at eight cents."

"Vy you don't buy it down there, then?" answers Snyder.

"But he hasn't any," says Casey.

"Oh, vell ven I don't got anq I sell 'em for eight cents a foot, too," says Snyder.

* * *

William, who was erecting an edifice out of building blocks, showed such unusually bungling workmanship that his father, who is a carpenter, took him to task.

"What kind of a shack do you call that?"

"Oh, that's all right, papa," replied William, "I'm building it to rent."—"Youngstown Telegram."

HAY WALKER BRICK COMPANY'S NEW QUARTERS.

The Hay Walker Brick Company, Inc., announce the removal of their New York offices to No. 470 Fourth avenue, with telephones 5687 and 5688 Madison Square. They also announce the appointment of Mr. Robert L. Findlay as sales manager. Mr. Findlay was formerly with Pfotenhauer-Nesbit Company. The Hay Walker Brick Company are large manufacturers of face brick, and their general offices are at Pittsburgh, Pa.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Philadelphia Real Estate Record and Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912.

Editor, J. Irving Dillon, 5616 Christian street Philadelphia.

Managing Editor, none.

Business Manager, none.

Publishers, Building News Publishing Co., Perry Building, Philadelphia.

Owners, W. S. Harvey 2nd, Bala, Pa.; Louis S. DeLone, 6419 Drexel road, Philadelphia; Samuel R. McDowell, Narberth, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,
Louis S. DeLone, Secretary.

Sworn and subscribed before me this 18th day of March, 1914.

Edward J. Toole, Notary Public.

(My commission expires January 21st, 1917.)

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

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Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

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Adolph Christensen, 1433 Brown st.

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910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Reinforcement.

Builders' Steel Products Co.,
Lafayette Bldg., Phila.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.

Fireproofing Materials.

Builders' Steel Products Co.,
Lafayette Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hardware and Tools.

Sees & Faber Co., 2008 N. Front st., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Hose and Fire Extinguishers.

Chas. Bond Co., 520 Arch st., Phila.

Insurance.

A. E. Hutson, 134 S. 4th st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Landscape Work.

T. E. Steele, Palmyra, N. J.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Staman & Dickey Co., 30 S. 16th st., Phila.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Tile.

American Perfectile Co., 1526 Sansom st.

Metal Lath.

Builders' Steel Products Co.,
Lafayette Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

Chas. Bond Co., 520 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Rinald Bros., 1142 N. Hancock st., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Perfectile.

The American Perfectile Co.,
1526 Sansom st., Phila.

Pipe Fittings and Valves.

Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts.

Radiators.

H. B. Smith Co., 1225 Arch st., Phila.

Ranges.

Henry M. Miller, 40 N. 2nd st., Phila.

Refrigerators.

Henry M. Miller, 40 N. 2nd st., Phila.

Roofing.

Benjamin Foster Co.,
22nd and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange.

Roofing Tile.

C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

The Fairbanks Co.,
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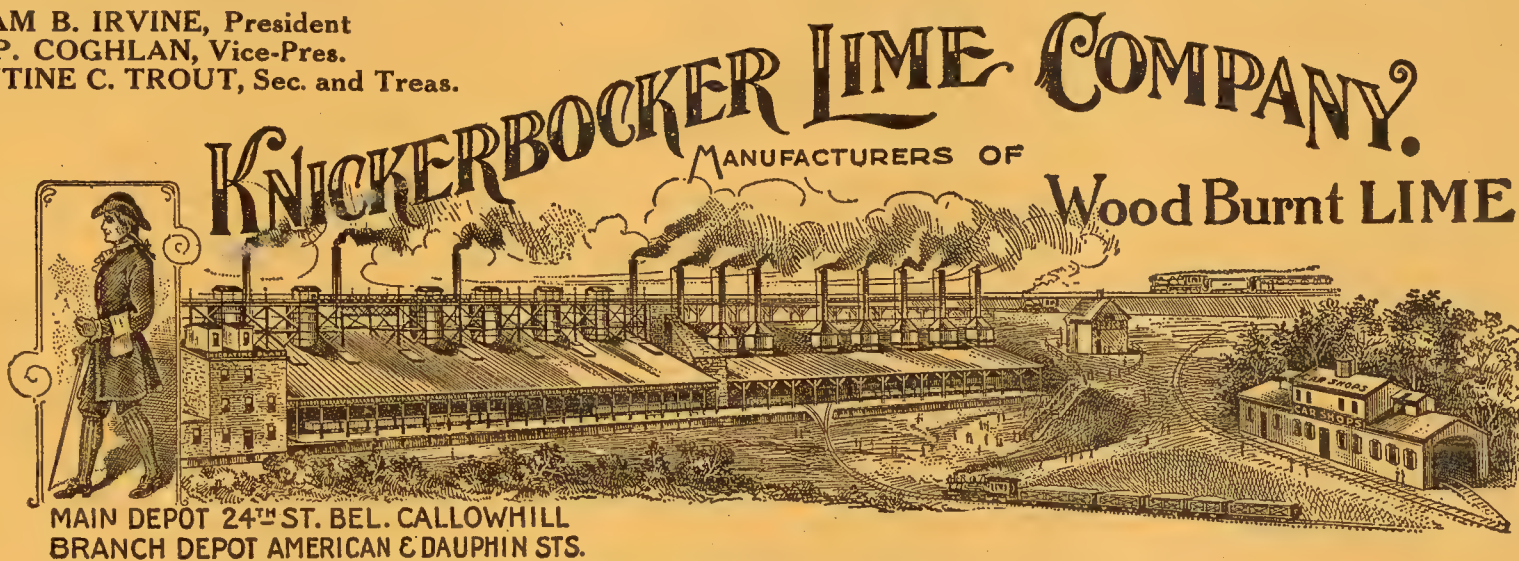
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Vol. XXIX., No. 13.

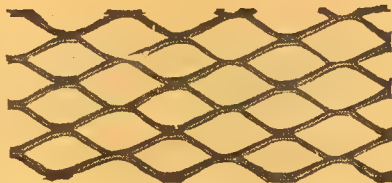
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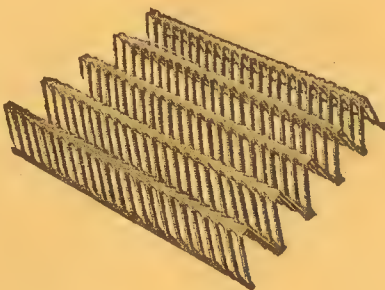
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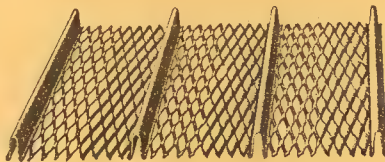


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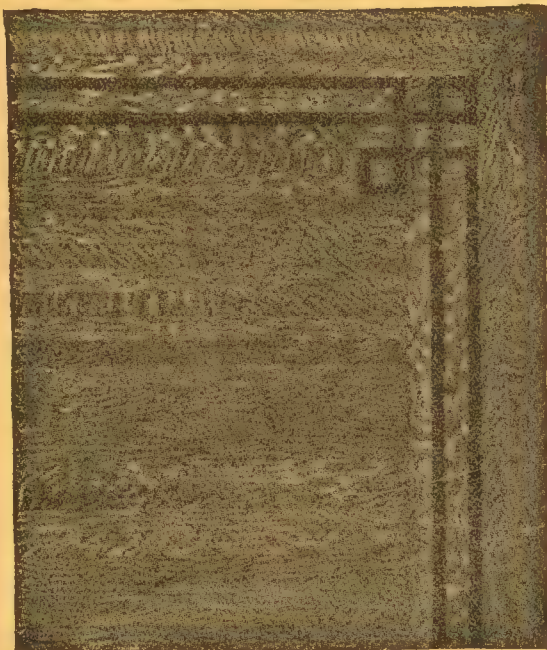
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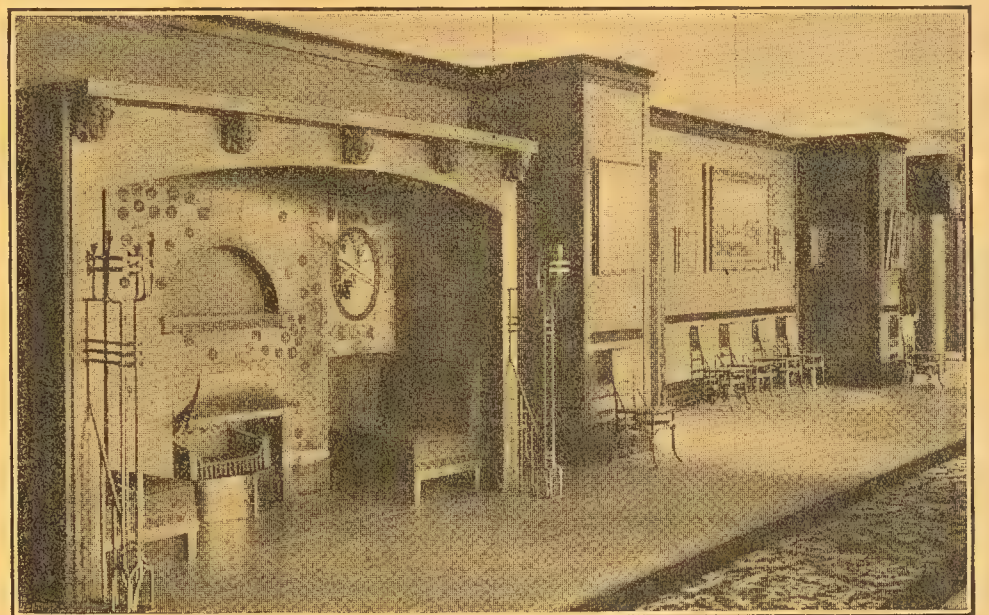
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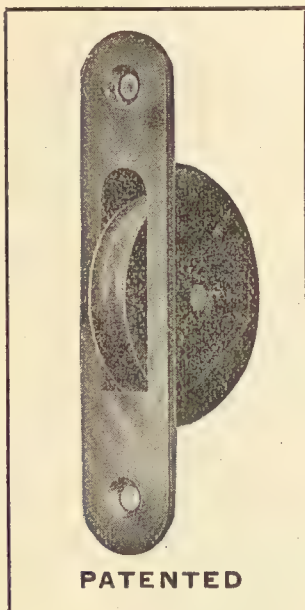
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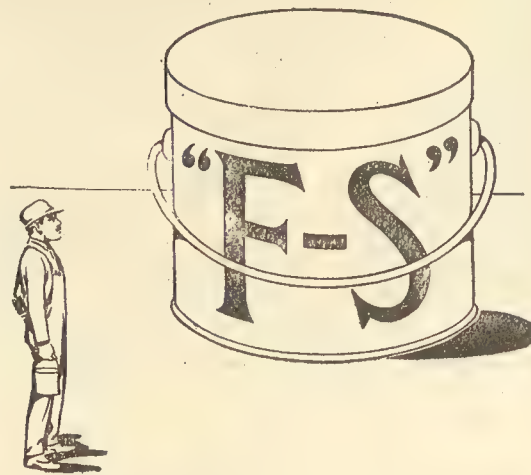
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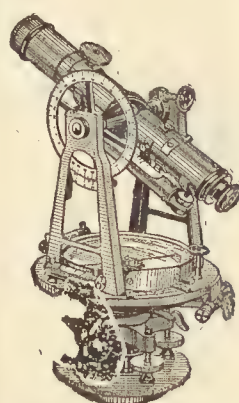
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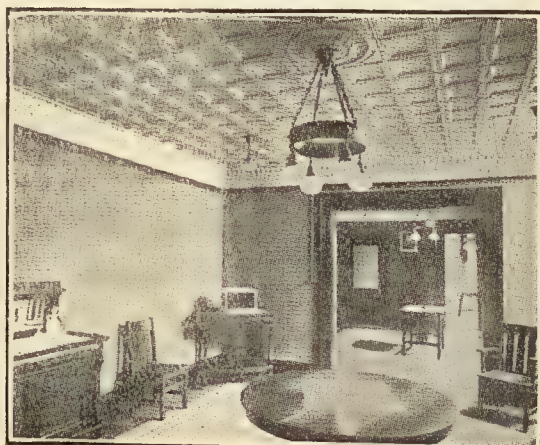
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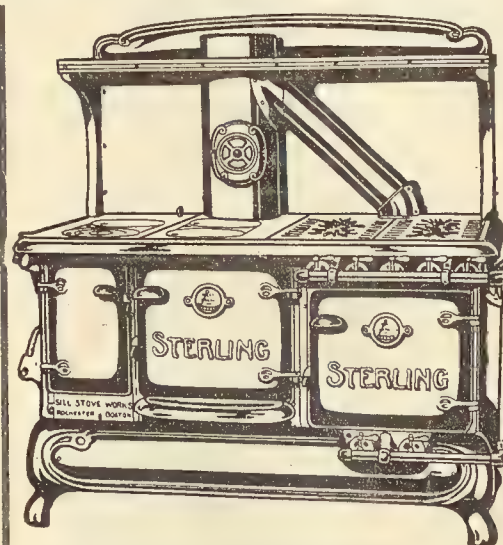
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Vol. XXIX., No. 13.

PHILADELPHIA, WEDNESDAY, APRIL 1, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence and Garage, Overbrook, Pa. Architects, Brockie & Hastings, 1713 Sansom street. Owners, Wendell & Wright, Overbrook, Pa. Stone, 2½ stories, 44x95 feet, slate roof, warm air heating, electric lighting, hardwood floors, metal lath. Architects received bids March 27th.

Bakery (alt. and add.), Twenty-fifth and Lombard streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, New York Pie Baking Company, on premises. Brick, 2 stories, waterproofing. Architects taking bids, due April 1st. William R. Dougherty, 1610 Sansom street, is figuring.

Factory, Falls of Schuylkill, Philadelphia. Architects, Lockwood, Greene & Co., 93 Federal street, Boston, Mass. Owners, John & James Dobson, Inc., on premises. Concrete, 4 stories. Plans in progress.

Saloon (alt. and add.), 5729 Woodland avenue. Architect, Charles E. Oelschlager, Harrison Building. Owner, Thomas J. Brady, on premises. Brick, 3 stories, slag roof, steam heating, electric lighting, metal ceilings. Architect taking revised bids, due April 1st. Frank Lucci, 1345 Catherine street; F. A. Havens Co., 845 North Nineteenth street; A. Whitehead, Inc., 1624 Latimer street, and E. J. Kreitzburg, 1345 Arch street, are figuring.

Residences (25), Sixty-second and Lansdowne avenue. Architect, private plans. Owner, John N. McGarvey, Sixty-third and Columbia avenue. Brick, 2 stories, 16x45 feet, slag roof, hot water heating, electric lighting, hard wood floors. Owner taking sub-bids.

Bath House, 311-313 Monroe street. Architects, Anderson & Haupt, Drexel Building. Owner, A. Kratschman, on premises. Brick, 3 stories, 40x90 feet, slag roof (heating and lighting reserved). Plans completed. Owner taking bids.

Club (alt. and add.), Old York road, Philadelphia. Architect, Oliver R. Parry, 1727 Chestnut street. Owners, Old York Road Country Club, on premises. Frame, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Nurses' Home, Penn and Chew streets, Germantown, \$60,000. Architect, Louis Carter

Baker, 34 South Sixteenth street. Owners, Germantown Dispensary and Hospital, on premises. Brick, stone and terra cotta, fire-proof, 3 stories, 61x136 feet, tile and slag roof, electric lighting (heating reserved), composition floors, safety treads, gypsum blocks, elevators, waterproofing, metal lath, metal sash and frames, kalamein doors. Architect taking bids, due April 9th. The following are figuring: J. P. Thompson, Real Estate Trust Building; H. E. Baton, Twelfth and Sansom streets; J. H. Wells, Heed Building; Cramp & Co., Denekla Building; James G. Doak & Co., Crozer Building; J. Myers & Sons Co., Witherspoon Building; J. E. & A. L. Pennock, Land Title Building; H. L. Brown, 1714 Sansom street; William J. Gruhler, 219 High street; F. Elvidge & Sons, 5522 Germantown avenue.

Fish Hatchery, Torresdale, Philadelphia. Architect, J. C. M. Shirk, 421 Chestnut street. Owners, State of Pennsylvania, Department of Fisheries, Harrisburg, Pa. Brick, 2½ stories, 30x40 feet, tile roof (heat and light reserved). Owners taking bids, due April 7th. The following are figuring: Charles McCaul Company, Tenth and Sansom streets; C. Gerke, Tacony, Pa.; J. Hand, R. Mathes, F. G. Castor, all of Holmesburg, Pa., and L. Walton and John Page, both of Maud, Bucks County, Pa.

Picture Theatre, Marshall and Market streets. Architects, Hoffman & Co., Thirteenth and Walnut streets. Owner's name withheld. Brick and terra cotta, 1 story, 38x110 feet, slag roof, steam heating, electric lighting. Architect taking bids, due March 31st. Lam Building Company, 1001 Wood street, and Smith Hardican Company, 1606 Cherry street are figuring.

Chapel and Convent, southwest corner Twenty-second and Green streets. Architect Paul Monaghan, Drexel Building. Owners, Sisters of Perpetual Adoration. Stone, 3 stories, 60x100 feet. Plans in progress.

Store (alt. and add.), 216 North Twelfth street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Frank Ambrogi, 215 North Twelfth street. New front, new bath room, extension to kitchen (heat reserved).

Architects taking bids, due April 4th. The following are figuring: Elfret & Wood, 1708 Sansom street; George & Borst, 277 South Eleventh street; Thomas Little & Sons, 1723 Moravian street; William Ferguson & Sons, 405 South Twenty-first street; Pomeroy Const. Co., 1609 Ranstead street.

Store Building (alt. and add.), 1314 Vine street. Architect, Charles E. Oelschlager, Harrison Building. Owner's name withheld. Brick, 3 stories, slag roof (heating and electric work reserved). Architect received bids March 27th.

Fire House (alt. and add.), Cheltenham, Philadelphia. Architect, Stanley Yocom, 5517 Morris street, Germantown, Philadelphia. Owner, Old York Road Fire Co., care of Samuel H. Magargal, 319 Montrost street. Stone and brick, 2 stories, composition roof, electric lighting, extension to steam heating. Owners taking bids due April 3rd. The following are figuring: Alexander Chambley, 243 South Tenth street; M. E. Hauser, Glenside, Pa.; C. L. Hemmerly, Oak Lane, Philadelphia.

Residence (remodeling), Southeast corner Sixteenth and Latimer streets. Architects, Mellor & Meigs, 205 South Juniper street. Owner, Edward Browning, 1511 Locust street. Brick, 3 stories. Consists of general alteration and addition. Plans in progress.

School (2 wings add.), Bridesburg. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Brick and stone, 3 stories, slate roof (steam heating and electric lighting reserved, metal lath, salt glazed brick, waterproofing. Owners taking bids, due April 9th. The following are figuring: H. H. Wehmeyer, 1004 West Lehigh avenue; Mitchell Bros., 2125 Race street; George & Borst, 277 South Eleventh street; J. E. & A. L. Pennock, Land Title Building; Ketcham & McQuade, 1125 Brown street; H. E. Baton, Twelfth and Sansom streets; J. W. Emery, 1524 Sansom street; E. C. Durell, 1713 North Twenty-fourth street; James Connor, 2848 Frankford avenue, all of Philadelphia.

Church, Eighteenth and Tioga streets. Architects, Watson & Huckel, 1211 Walnut street. Owners, Tioga M. E. Church, on prem-

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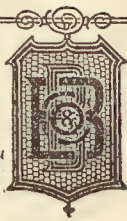
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Residence and Garage, Oak Lane, Philadelphia, \$16,000. Architects, Neff & Thames, Heed Building. Owner's name withheld. Stone, plastered, 2½ stories, red slate roof, hot water heating, electric lighting, hardwood floors. Architects ready for bids.

Picture Theatre, Marshall and Market

streets. Architects, Hoffman & Co., Thirteenth and Walnut streets. Brick and terra cotta, 1 story, 38x110 feet, slag roof, steam heating, electric lighting. Architects taking bids, due April 4th. The following are figuring: George Hogg, 1634 Sansom street; Jas. G. Doak & Co., Crozer Building; Freud-Seidenbach, Bulletin Building; Smith-Hardican Company, 1606 Cherry street; Lam Building Company, 1001 Wood street.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Picture Theatre, Sharpnack and Germantown avenue, \$10,500. Architects, Borzner & Wood, 721 Walnut street. Owner, Benjamin Haas, 3008 Germantown avenue. Brick and terra cotta, 1 story, 42x100 feet, slag roof, electric lighting, steam heating. Contract awarded to J. Richard Jackson, Perry Building.

Apartment House, Oak Lane, Philadelphia. Architect, A. M. Adams, 1012 Walnut street. Owner, C. E. Lloyd, Jr., 6515 North Eighth street. Stone, 2 stories, 109x40 feet, slate

roof, vapor heating, electric lighting, hardwood floors. Contract awarded to Oak Lane Park Building Co., Seventh street and Oak Lane avenue, who are taking sub-bids.

Garage, Horter street and Wayne avenue. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, C. M. Brown, on premises. Stone, 2 stories, 23x42 feet, green slate roof, hot water heat. Contract awarded to F. B. Davis, 35 South Seventeenth street, Philadelphia.

PENNSYLVANIA**Construction News**

Residence, Newtown, Pa. Architect, Oliver R. Parry, 1727 Chestnut street. Owner, J. J. Tierney, Newtown, Pa. Brick and frame, 1½ stories, 40x60 feet, slate roof, electric lighting, composition floors. Plans in progress.

Picture Theatre, Hanover, Pa. Architect, Herman Miller, Crozer Building. Owner, John J. Schmidt, Hanover, Pa. Brick and terra cotta, 1 story, 36x115 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Haverford, Pa. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Robert Meade Smith, Jr., 1001 Chestnut street, Philadelphia. Plaster, 2½ stories, shingle roof (heat and light, reserved). Architect received bids March 30th.

Residences and Garages (5), Ogontz, Pa. Architects, Oswald C. Hering and Douglas Fitch, 132 Madison avenue, New York City. Owner, W. E. Hering, 112 North Twelfth street, Philadelphia. Stone, hollow tile and

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plaster, 2½ stories, shingle roofs, white oak floors (heating, plumbing, electric work, plastering, painting, tile work, reserved). Owner has received bids.

Club House, Mahanoy City, Pa. Architect, Ed. Z. Scholl, Reading, Pa. Owners, B. P. O. E., No. 695, Mahanoy City, Pa. Brick and terra cotta, 3 stories, 42x125 feet, slag and tile roof, electric lighting (heat, reserved), metal ceilings, metal lath, water-proofing, composition floors. Architect taking bids due April 10th. The following are figuring: J. W. Emery, 1524 Sansom street; Charles McCaul Co., Tenth and Sansom streets; F. Roe Searing, Perry Building, of Philadelphia, Pa.; Shamokin Lumber Co., Shamokin, Pa.; L. H. Focht, Reading, Pa.; Fink & Seidel, Colonial Trust Building, Reading, Pa.; W. Wertloy & Sons, Pottsville, Pa., and Andrew Breslin, Summit Hill, Pa.

Residence, near Valley Forge, Pa. Architects, Heacock & Hokanson, Bailey Building. Owner, J. W. Walker, Valley Forge, Pa. Hollow tile and stucco, 2½ stories, 35x98 feet, wing, 20x40 feet, tile roof, warm air and hot water heating, fireproof partitions and floors, hardwood floors, electric lighting. Architects taking bids due April 8th. The following are figuring: Pomerooy Construction Co., 1609 Ransstead street; T. C. Trafford, 1613 Sansom street; W. H. Eddleman, 453 Green lane, Roxborough; J. H. Wells, Heed Building; Henry L. Brown, 1714 Sansom street, of Philadelphia; George L. Croll, Rosemont; H. H. Burrell, 1204 Chancellor street, of Philadelphia; F. B. Davis, 35 South Seventeenth street, and the Matthews Construction Co., Princeton, N. J.

Stable and Garage (alt. and add.), Meadowbrook, Pa. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, W. E. Weber, 509 South Tenth street, Philadelphia. Stone, 1½ stories, shingle roof, steam heating, electric light. Plans in progress.

Home Building, Quincy, Pa. \$22,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, United Brethren Church, Quincy, Pa. Brick, stone trimmings, 2½ stories, 40x125 feet, slate roof, steam heating, electric lighting. Plans in progress.

Church (alt. and add.), York, Pa. \$15,000. Architect, C. A. Keyworth, Small Building, York, Pa. Owner, Colored M. E. Church, York, Pa. Stone and brick, 2 stories, 32x100 feet, slate roof, steam heating, electric lighting. Plans in progress.

School, Manheim, Pa. \$50,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Manheim, Pa. Brick, 2 stories, 169x60 feet, slag roof, warm-air heating, electric lighting. Plans in progress. Bids in one month.

School, York, Pa. \$40,000. Architect, Robert A. Stair, Jr., Guardian Trust Building, York, Pa. Owner, Board of Education,

York, Pa. Brick, 2½ stories, 80x110 feet, slag roof, heating not decided, electric lighting. Plans in progress.

Arsenal Building, Harrisburg, Pa. \$45,000. Architect, C. A. Keyworth, Capitol Building, Harrisburg, Pa. Owner, State of Pennsylvania, care of Samuel R. Rambo, Superintendent of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and terra cotta, 2 stories, 61x214 feet, slag roof, steam heating, electric lighting, concrete floors, metal frames and sash. Owners taking bids due April 14th, at noon. Plans may be obtained from Mr. Rambo.

Residence (alt. and add.), York, Pa. \$3,000. Architect, C. A. Keyworth, Small Building, York, Pa. Owner, J. E. Vandersloot, 47 East Market street, York, Pa. Stone and stucco, 2½ stories, 50x20 feet. Plans in progress.

Arsenal Building, Harrisburg, Pa. \$45,000. Architect, C. A. Keyworth, Capitol Building, Harrisburg, Pa. Owner, State of Pennsylvania, care of Samuel R. Rambo, Superintendent of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and terra cotta, 2 stories, 61x214 feet, slag roof, steam heating, electric lighting, concrete floors, metal frames and sash. Owners taking bids due April 14th. Charles McCaul Co., Tenth and Sansom streets, and F. Roe Searing, Perry Building, Philadelphia, are figuring. Plans may be obtained from Mr. Rambo.

School (add), Norristown, Pa. Architect, Oliver R. Parry, 1727 Chestnut street. Owner, Board of Education, Norristown, Pa. Brick, fireproof, 2 stories, 30x76 feet, slate roof, steam heating. Owners taking bids due April 6th. Plans may be obtained from H. W. Akins, Norristown, Pa.

School Building, Rosemont, Pa. Architects (associated), D. K. Boyd, John L. Coneys and Victor Abel, northeast corner Fifteenth and Walnut streets. Owner, School Board of Radnor Township, Wayne, Pa. Brick, 1 story, 160x40 feet, two wings, 40x40 feet each, slate roof, hot-air heating, electric lighting. Plans in progress. Owners will take bids in three weeks.

Residence, Lansdale, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner's name withheld. Plaster, 2½ stories, 35x60 feet, tile roof, warm air heating, electric lighting, hardwood floors. Plans completed. Architects taking bids.

Residence (alt. and add.) West Conshohocken, Pa. Architects, Brockie & Hastings, 1713 Sansom st., Phila. Owner, Wm. B. Read, Conshohocken, Pa. Stone, hollow tile and plaster, 3 stories, tin roofs, electric lighting, extension to hot-water heating, quartered white oak floors, metal lath, damp-proofing, for stucco. Architects taking bids due April 6th. The following are figuring: Alexander Chambley, 243 South Tenth street; H. E. Grau Co., 1707 Sansom street; William H.

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PHONE SPRUCE, 62-91

Eddleman, 453 Green Lane, Roxborough, Philadelphia; Gray Bros., Rosemont, Pa.; Oscar Freas, Conshohocken, Pa.; Culp & Staley, Plymouth Meeting, Pa.

Residence, Jenkintown, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, Dr. A. C. Heritage, Jenkintown, Pa. Stone, 2½ stories, 27x69 feet, slate roof, hot water heating, electric lighting. Revised plans in progress. Bids in a few days.

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PENNSYLVANIA

Contracts Awarded

Bank Building (remodeling), Pottstown, Pa. Architects, Lachman & Murphy, Wither-
spoon Building, Philadelphia. Owners, Na-
tional Iron Bank of Pottstown, Pa. Stone
and brick, 3 stories, slag roof, electric light-
ing, steam heating, new banking fixtures. Con-
tract awarded to William H. Wiand, Potts-
town, Pa.

Residence (alt. and add.), near Malvern, Pa. Architect, C. F. Schermerhorn, 430 Wal-
nut street, Philadelphia. Owner, Walter F.
Klemm, 1326 Walnut street, Philadelphia.
Hollow tile and plaster, 2½ stories, shingle
roof, electric lighting, hardwood floors, hot
water heating. Contract awarded to A. M.
Hall, Paoli, Pa.

Residence, Jenkintown, Pa., \$7,500. Archi-
tects, Heacock & Hokanson, Bailey Building,
Philadelphia. Owner, A. R. Nicholson, Jen-
kintown, Pa. Hollow tile and plaster, 2½
stories, 40x24 feet; wing, 18x41 feet, shingle
roof, warm air heating, electric lighting, red
oak floors. Contract awarded to Specht &
Sperry, Heed Building, Philadelphia.

Residence, Ardmore, Pa., \$9,060. Archi-
tects, Stout & Riebenack, Bartlett Building,
Atlantic City. Owner, Dr. M. D. Youngman,
Ardmore, Pa. Stone and stucco, 2½ stories,
39x44 feet, slate roof, electric lighting, hot
water heating, hardwood floors. Contract
awarded to Charles C. Pace, Merion, Pa.

Residence (alt. and add.), Downingtown, Pa. Architects, Wilson Eyre & McIlvaine,
1003 Spruce street, Philadelphia. Owner,
Mrs. M. C. Breese, Downingtown, Pa. Stone,
2½ stories, hot water heating, electric light-
ing. Contract awarded to George & Borst,
277 South Eleventh street, Philadelphia.

Residence, Hanover, Pa., \$15,000. Archi-
tect, Robert A. Stair, Jr., Guardian Trust
Building, York, Pa. Owner, D. E. Winabren-
ner, Jr., Hanover, Pa. Brick, 2½ stories,
36x45 feet; wing, 25x20 feet, shingle roof,
steam heating, gas and electric lighting, hard-
wood floors. Contract awarded to Charles
Klunk, Hanover, Pa.

Infirmity, Eaglesville, Pa., \$15,440. Archi-
tects, Magaziner & Potter, 137 South Fifth
street, Philadelphia. Owners, Jewish Sani-
tarium for Consumptives. Brick and frame,
1 story, shingle roof, electric lighting, steam
heating. Consists of administration building,
power house, dining room and additional
shacks. Contract awarded to J. H. Cassel,
Norristown, Pa.

Residence, Bryn Mawr, Pa. Architects,
Duhring, Okie & Zeigler, Bailey Building.
Owner, Barent W. Van Kleeck, 6613 Emlen
street, Germantown. Stone and rough cast,
2½ stories, 65x58 feet, shingle roof, hot water
heating, electric lighting, oak floors. Con-
tract awarded to W. John Stevens, Wyncote,
Pa.

NEW JERSEY

Construction News

Store and Apartments, Woodbury, N. J.,
\$10,000. Architect, Charles J. Brooke, 518
Federal street, Camden, N. J. Owner, Harry
Polsky, Woodbury, N. J. Brick, 2 stories,
94x66 feet, slag roof, steam heating, gas and
electric lighting. Plans in progress.

Water Works and Power House, Ancora, N.
J. Architect, Thomas Stephens, Masonic
Temple, Camden, N. J. Owners, Camden
County Freeholders, Court House, Camden.
Brick and concrete, 1 story, 23x30 feet, slag
roof, electric lighting. Owners taking bids,
due April 8th.

School, Elmer, N. J., \$20,000. Architect,
Bart Tourison, Land Title Building, Phila-
delphia. Owners, Board of Education, care
of E. Bostwick, Elmer, N. J. Brick, 2 stories,
51x80 feet. Plans completed. Bids in about
one week.

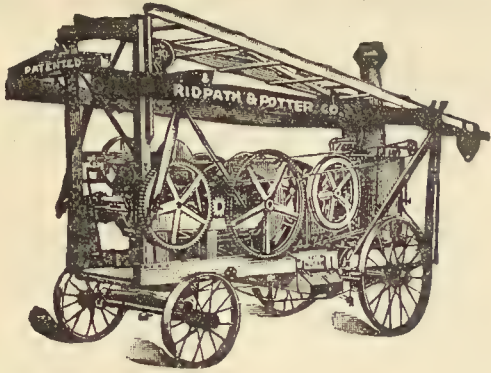
School (add.), Ventnor, N. J. Architect,
J. Vaughn Mathis, Bartlett Building, Atlantic
City. Owners, Board of Education, Atlantic
City, N. J. Brick, fireproof, 2½ stories, 26x
68 feet, slate roof, steam heating, electric
lighting, metal partitions, kalamein doors,
metal ceilings, waterproofing. Owners tak-
ing bids, due April 9th. J. W. Emery, 1524
Sansom street, Philadelphia, is figuring.

Factory, Fourth and Jefferson streets, Cam-

den, N. J. Architect, Clyde Adams, 1509
Arch street, Philadelphia. Owners, General
Gas Mantel Co., on premises. Brick and con-
crete, 3 stories, 40x135 feet, slag roof. Plans
about completed. Bids in about 10 days.

Residence, Trenton, N. J., \$12,000. Archi-
tects, W. W. Slack & Son, American Mechan-
ics' Building, Trenton, N. J. Owner, John L.
Brock, Canal street, Trenton, N. J. Frame
and stucco, 2½ stories, tile roof, metal lath,
hot water heating, electric lighting, hardwood
floors. Architects taking revised bids. The
following are figuring: I Harper Clayton,
American Mechanics' Building; Burton &
Burton, American Mechanics' Building; Scott
& Day, 232 South Olden avenue; Samuel W.
Mather, E. D. LaRue, 52 South Hermitage
street; A. C. Voorhees, 592 Brunswick avenue;
John Proctor, 53 Garfield street, all of Tren-
ton, N. J.

Residence (alts. for Apartments), Trenton,
N. J., \$10,000. Architects, W. W. Slack &
Son, American Mechanics' Building, Trenton,
N. J. Owner, Mrs. Thomas Carney, 221 North
Warren street, Trenton, N. J. Brick, 3 stories,
44x82 feet, slag roof, steam heating, electric
lighting. Architects taking bids. The fol-
lowing are figuring: I Harper Clayton, Amer-
ican Mechanics' Building; Scott & Day, 232



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South Clinton avenue; Samuel W. Mather, E. D. LaRue, 52 South Hermitage street; Burton & Burton, American Mechanics' Building; J. Barnhart, Stephen Diekneit, E. Margerum, all of Trenton, N. J.

School, Ewing Township, N. J., \$15,000. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owners, Board of Education, care of F. C. Leaming (Sun Optical Company), State and Warren streets, Trenton, N. J. Brick, 2 stories, slag roof, metal lath. Revised plans in progress.

Residence, Flemington, N. J., \$7,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, E. B. Hall, Flemington, N. J. Hollow tile and stucco, 2½ stories, 37x39 feet, shingle roof, gas and electric lighting, heating not decided. Plans in progress. Architects will take bids in about 10 days.

Apartment House, Boardwalk and Iowa avenue, Atlantic City, N. J. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, D. Lamponi, Boardwalk and Pennsylvania avenue, Atlantic City. Brick and terra cotta, 5 stories, 120x60 feet, slag roof (steam heat and electric lighting separate bids). Architects taking bids, due April 1st. The complete list of bidders are: J. W. Emery, 1524 Sansom street; William R. Dougherty, 1610 Sansom street; George Hogg, 1634 Sansom street; A. Whitehead, Inc., 1624 Latimer street; Freund-Seidenbach, Bulletin Building, all of Philadelphia; William Beaumont, 12 South Tennessee avenue, and Thompson Bros., 14 South Ohio avenue, both of Atlantic City, N. J. (Note change.)

Manufacturing Building and Boiler House, Haddon avenue and Pennsylvania Railroad, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Wood Manufacturing Company, Seventh and Erie avenue, Camden, N. J. Reinforced concrete, 3 stories; boiler house, 32x48 feet; manufacturing building, 82x146 feet, slag roof, steam heating, electric lighting. Architects taking bids, due April 3rd. The following are figuring: Cramp & Co., Denckla Building; Harrison C. Rea Co., 1027 Wood street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Turner Concrete Steel Co., Barclay White Co., Perry Building, all of Philadelphia.

Office Building (alts.), 5 South North Carolina avenue, Atlantic City, N. J., \$1,800. Architects, Shull & Berry, Humphrys Building, Atlantic City. Owner, James A. Hum-

phrys, 1021 Callowhill street, Philadelphia. Consists of changing third floor into apartments. Electric lighting, changing steam heating plant. Architects taking bids. Thompson Bros., 15 South Ohio avenue, and Ed. Collings, 4 North Surrey avenue, Atlantic City, N. J., are figuring.

Bungalow, Atlantic City, N. J., \$4,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner's name withheld. From 1½ stories, 26x42 feet, slate roof, hot water heating, gas and electric lighting. Plans in progress.

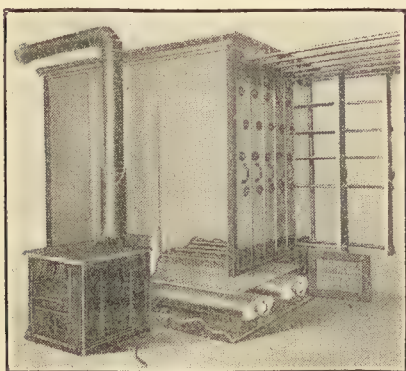
Garage, Atlantic City, N. J., \$3,000. Architect, Seward G. Robbins, City Square Theatre Building, Atlantic City. Owner's name withheld. Brick, concrete and stucco, 1 story, 40x60 feet, slag roof, electric lighting. Plans in progress. Architect will take bids in about one week.

School (add.), Ventnor, N. J., \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owners, Board of Education, Ventnor, N. J. Brick and terra cotta, 2 stories, 55x80 feet, slate roof, electric lighting. Owners taking bids, due April 6th. The following are figuring: John W. Emery, 1524 Sansom street, Philadelphia; W. Beaumont, 12 South Tennessee avenue, Atlantic City; John Ingersoll, Margate City, N. J.; G. C. Shappell, 113 South Texas avenue, Atlantic City.

Residence, Ventnor, N. J., \$7,500. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, William Zimmer, 37 South Richmond avenue, Atlantic City. Brick and stucco, 2½ stories, 38x25 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids. The following are figuring: H. G. Scull, Sheen Building; E. Ellsworth Smith, 2809 Fairmount avenue; Charles S. Corson, Linwood, N. J.

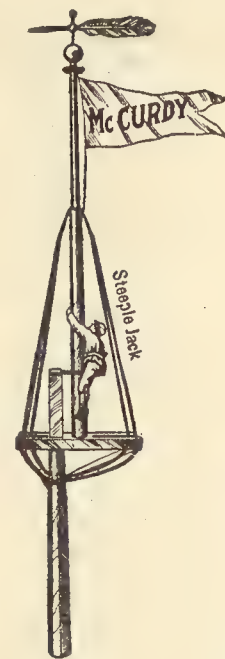
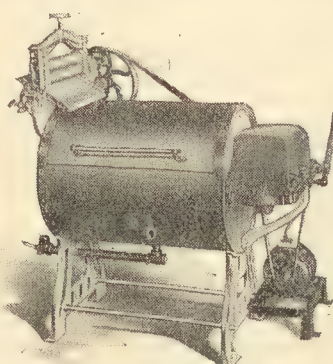
Factory (add.), Trenton, N. J., \$4,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owners, Trenton Porcelain Company, 803 State street, Trenton, N. J. Brick, 2 stories, 70x25 feet, slag roof, concrete floors. Contract awarded to Carl Poinsett, Trenton, N. J.

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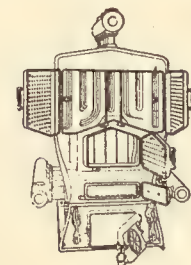
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Miscellaneous Construction News

Mill Building (add.), Pittsfield, Mass. Architects, Day & Zimmerman, 608 Chestnut street, Philadelphia. Owners, Eaton, Crame & Pike Co., Pittsfield, Mass. Brick, 3 stories and basement, 42x150 feet, slag roof, electric lighting. Plans in progress.

Manufacturing Building, Borden avenue, Long Island City, N. Y. Architects, Ballinger & Perrot, 1211 Arch street. Owners, American Bar Lock Co., Twenty-sixth street and Pennsylvania avenue, Philadelphia. Brick and terra cotta, 2 stories, 75x180 feet, slag roof, steam heating, electric lighting, metal partitions, rolling steel sash, water-proofing. Architects taking bids due April 2nd. Cramp & Co., 25 East Twenty-sixth street; R. Brocklehurst, 1328 Broadway; H. D. Best Co., 320 Fifth avenue; T. J. Lonigan, 1133 Broadway; Cauldwell-Wingate Co., 381 Fourth avenue; Ruggles-Robinson Co., 331 Madison avenue, and Tullis & Blanchard, Inc., 39 West Thirty-second street, all of New York City, are figuring.

Apartment House, Eleventh and Washington streets, Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington. Owner, Thomas J. Weir, Fourteenth and Washington streets, Wilmington. Brick, 4 stories, 80x75 feet, slag roof, steam heating, electric lighting. Architect taking bids, due April 9th. The following are figuring: Alfred Downward, 809 Tatnall street; Harry S. Lynch, 715 Tatnall street; Charles H. Tindall & Sons, 614 Tatnall street; J. E. Healy & Son, 707 Tatnall street, all of Wilmington, Del.

Parish House, Wilmington, Del. Architect, Edward C. May, DuPont Building, Wilmington. Owner's name withheld. Brick, limestone and stucco, 2½ stories, 30x80 feet, slate and slag roof, hot water heating, electric lighting. Plans in progress.

Residences (3), Wilmington, Del., \$7,500. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner's name withheld. Brick and stucco, 2½ stories, 16x34 feet each, slate and slag roofs, hot air heating, gas and electric lighting. Architect ready for bids.

Restaurant (alt. and add.), 825 Market street, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Victor H. Bacon, 817 Market street, Wilmington, Del. Stone and brick, 3 stories, 60x20 feet, Carey roof, hot water heating, gas and electric fixtures, hardwood floors. Architect received bids March 28th.

Fire House and Hall, Colwyn, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owners, Borough of Colwyn. Brick and stone trimmings, 2 stories, steam heating, electric lighting. Plans in progress.

Residence and Garage, Lansdowne, Pa.,

\$7,500. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner's name withheld. Stone and stucco, 2½ stories, shingle roof, hot water heating, electric lighting. Plans in progress.

Stores and Apartments (alt. and add.), Fourteenth and King streets, Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington. Owner, Paul Steinke, on premises. Brick, 3 stories, 20x80 feet, tin roof, hot water heating, gas and electric lighting. Architect taking bids. The following are figuring: Charles J. Dougherty, 1809 Lincoln street; J. E. Healy & Son, 707 Tatnall street; Alfred Downward, 809 Tatnall street; John P. Reardon, 807 Shipley street; Egbert Nutter, 6 West Thirtieth street, all of Wilmington, Del.

High School, Dover, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington. Owners, Board of Education, Dover, Del. Brick, stone trimmings, 2 stories, slate roof, electric lighting. Plans in progress.

WANTED — Superintendent of building construction, in Philadelphia. Must have had wide experience in all details of building work and concrete construction. Steady job and good pay. Furnish references with reply. Box No. 50, Builders' Guide, Perry Bldg., Philadelphia, Pa.

Miscellaneous Contracts Awarded

Residence, Twenty-third and Boulevard, Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, James J. O'Hara, 211 Madison street, Wilmington. Brick, 2½ stories, 25x45 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Residence (alt. for Store), 624 North Ninth street, Wilmington. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Michael Pennetto, Ninth and Madison streets, Wilmington. Brick, 1 story, 18x22 feet, new bulk windows. Contract awarded to Charles H. Tindall & Sons, 614 Tatnall street, Wilmington, Del.

Cottages (2), Claymont, Del., \$57,300. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Delaware Industrial School for Girls, Claymont. Stone, 3 stories, 84x122 feet, slate roof (heat and light reserved). Lowest bid submitted by A. S. Reed & Bros. Co., 815 Shipley street, Wilmington, Del.

Lorenzo Bros. (O), 206 Benyert street. Cost, \$4,500. Two dwellings, brick, 2 stories, 16x38 feet, 25 and 27 Abington avenue.

C. A. Schuler (O), 1342 Wagner avenue. Cost, \$6,000. Store and dwelling, brick, 2 stories, 25x44 feet, Eighth street and Hunting Park avenue. Cost, \$35,200. Sixteen dwellings.

Moss & Taylor (O), Fifty-eighth street and Girard avenue. Cost, \$100,800. Thirty-six dwellings, brick, 2 stories, 15x34 feet, Sixtieth and Latona streets.

W. H. Leibrich (O), 2840 Ridge avenue. M. Coffin (C), 2840 Ridge avenue. Cost, \$17,000. Seven dwellings, brick, 2 stories, 15x30 feet, Twentieth and Chestnut streets. Cost, \$28,000. Eight dwellings. Cost, \$9,600. Three dwellings.

M. Haller (O), 2123 South Fourth street. Cost, \$9,600. Six dwellings, brick, 2 stories, 15x26 feet. McKean street and Moyamensing avenue. Cost, \$30,400. Nineteen dwellings.

E. F. Pagan (O), 5900 North Park avenue. Cost, \$1,500. Dwelling, brick, 1 story, 25x20 feet, 1319 Nedro avenue.

J. Farbestein (O), 908 Walnut street. Cost, \$2,500. Store and dwelling, brick, 2 stories, 15x48 feet, Forty-ninth and Aspen streets. Cost, \$8,000. Four dwellings.

E. F. Gorman (O), Fifty-second and Arch streets. Cost, \$17,500. Seven dwellings, brick, 2 stories, 15x68 feet. Cost, \$17,500. Seven dwellings. Cost, \$2,500. One dwelling. Cost, \$2,500. One dwelling. Cost, \$4,400. Two dwellings. Cost, \$30,800. Fourteen dwellings. Cost, \$30,000. Twelve dwellings. Cost, \$10,000. Four dwellings, Forty-first and Spring Garden streets.

C. T. Hallowell (O), 6060 Webster street. Cost, \$120,000. Twenty dwellings, brick, 2 stories, 16x26 feet, Fifty-ninth and Carpenter streets. Cost, \$8,000. One dwelling.

Nathan Trotter (O), Philadelphia. J. P. Thompson (C), Real Estate Trust Building. Cost, \$23,000. Residence, stone, 3 stories, 30x79 feet. Cost, \$3,200. Garage, Chestnut Hill, Philadelphia.

A. Roth (O), 482 North Third street. M. A. Roth (C), Thirteenth and Cheltenham avenue. Cost, \$24,000. Six dwellings, 3 stories, 16x51 feet, Thirteenth and Camac streets. Cost, \$8,000. Two dwellings. Cost, \$14,000. Four dwellings.

Joseph Lambert, Jr., 6616 Marsden street. Cost, \$1,800. One dwelling, brick, 3 stories, 16x40 feet, 6616 Marsden street.

William Ludwig (O), 6228 Walker street. Cost, \$3,900. Three dwellings, brick, 2 stories, 15x24 feet, Van Kirk and Walker streets.

Bruner & Collins (O), 5441 Haverford avenue. Cost, \$18,700. Eleven dwellings, brick, 2 stories, 15x30 feet, Wanamaker street and Lansdowne avenue.

A. Peoples (O), 2343 College avenue. Cost, \$1,500. Garage, brick, 2 stories, 32x18 feet, 1522 Ingersoll street.

A. B. & C. F. Millett (O), 5021 North Twelfth street. Cost, \$36,000. Eight dwellings, brick, 3 stories, 16x51 feet. Cost, \$19,000. Four dwellings. Cost, \$9,500. Two dwellings, 5000 to 5012 North Twelfth street.

G. W. Shisler (O), 2300 South Eleventh street. Cost, \$1,500. Store and dwelling. Cost, \$1,500. Store and dwelling. Cost, \$31,200. Twenty-six dwellings.

Stohrer's Keystone Pickle Company, 118 Spruce street. Turner Concrete Steel Company (C), 1713 Sansom street. Cost, \$35,000. Manufacturing Building, brick, 4 stories, 49x100 feet, 118 Spruce street.

Dr. George Woodward (O), North American Building. Pringle Borthwick (C), 8018 Germantown avenue. Cost, \$18,000. Residence, stone, 3 stories, 19x24 feet, Germantown.

H. A. Lester (O), 1808 Hanson street. Cost, \$10,000. Five dwellings, brick, 2 stories, 14x27 feet, Cedar and Hanson streets. Cost, \$2,500. One dwelling.

M. Maloney (O), 5900 Spruce street. Cost, \$27,500. Ten dwellings, brick, 2 stories, 15x24

Permits for New Buildings

O is the abbreviation for owner. **C** is for contractor.

Philadelphia

Epplé & Creed (O), 4849 Lancaster avenue. Cost, \$2,500. Manufacturing Building, 2 stories, 22x60 feet, 4849 Lancaster avenue.

Harry Brocklehurst (O), 512 Norris street. Cost, \$3,500. Store and dwelling, brick, 3 stories, 16x38 feet, Ninth and Pike streets. Cost, \$3,500. Store and dwelling, brick, 3

stories. Cost, \$58,000. Twenty-nine dwellings.

R. H. Pugh (O), 5713 Market street. Cost, \$48,000. Twenty-four dwellings, brick, 2 stories, 15x30 feet. Cost, \$48,000. Twenty-four dwellings. Cost, \$4,400. Two dwellings, Robinson street and Hadidngton avenue.

feet, Sixty-second and Cedar avenue. Cost, \$6,000. Two dwellings.

Louis Laib (O), 6638 Torresdale avenue. Cost, \$7,000. Five dwellings, brick, 2 stories, 15x25 feet, Fifteenth and Glenlock avenue. Cost, \$1,500. One dwelling.

H. B. Underwood Company (O), 1025 Hamilton street. J. N. Gill Company (C), Heed Building. Cost, \$23,000. Manufacturing, brick, 3 stories, 60x100 feet, 1025 Hamilton street.

Robert Killough (O), Wayne and Duval street. Cost, \$46,200. Twenty-two dwellings, brick, 2 stories, 22x25 feet, Ogontz avenue and Godfrey street. Cost, \$37,800. Eighteen dwellings.

T. J. Beck Sons, 3320 North Broad street. H. A. Smink (C), 5320 North Twelfth street. Cost, \$16,000. Apartment house, brick, 4 stories, 25x125 feet, 3336 North Broad street.

S. J. Stewart (O), 454 High street. Robert Stewart (C), 454 High street. Cost, \$1,800. One dwelling, brick, 16x22 feet, 3 stories, Hellerman and Palmetto streets.

R. R. Heath (O), Eighty-seventh and Ashwood avenue. Cost, \$3,500. Dwelling, brick, 2 stories, 14x38 feet, Eighty-sixth and Bartram avenue.

William F. Rafferty (O), 1918 East Ontario street. Cost, \$22,400. Fourteen dwellings, brick, 2 stories, 14x30 feet, Thayer and Emerald streets.

Yaskin & Shepkin (O), 7717 Brewster avenue. Cost, \$9,600. Six dwellings, brick, 2 stories, 14x34 feet, Eighty-second and Lesser streets.

Starr Amusement Co. (O), Thirty-first and Wharton streets. Cost, \$50,000. Theatre, brick, 1 story, 42x62 feet, Thirty-first and Wharton streets.

for the use of stucco in covering its surface, somewhat about design, what architects design for themselves, and for the other fellow, the most recent devices for the treatment and decoration of stucco, and finally the development of tile as an exterior finish in itself. In working up to this point, Mr. Squires has ransacked the realm of architecture and shows us how units in brick work have developed, the effect of large scale units in wall surfaces, and finally the "texture-tile."

The utilitarian side of the subject, that is methods of construction for the walls and floor systems, is graphically presented with several new schemes which have been developed by the author himself. Besides, there is a very interesting plea, backed up by the best of precedent, for the use of flat, easily fireproofed roofs in house construction.

Alterations and Additions

Oakdale Baking Co. (O), Tenth street and Susquehanna avenue. Peterson Oven Co. (C), New York City. Cost, \$1,800. Tenth street and Susquehanna avenue.

F. C. Richards (O), 118 Phil-Ellena street. McCullen Co. (C), 321 West York street. Cost, \$1,000. Garage, 118 Phil-Ellena street.

D. Micantro (O), 1647 Ellsworth street. Cost, \$1,400. Dwelling, 508 Queen street.

P. Schaffer & Son (O), 2327 South Seventh street. Harry Gill, Jr., 2515 Germantown avenue. Cost, \$1,000. Manufacturing building.

J. S. Miller Co. (O), 625 West Girard avenue. E. Tourison (C), 1001 Chestnut street. Cost, \$700. Store and dwelling, 253 North Eighth street.

S. P. Kenworthy (O), 248 Green Lane. W. H. Eddleman (C), 453 Green Lane. Cost, \$4,000. Residence, 348 Green Lane.

J. J. Stratton, Jr., 505 Chestnut street. F. Hall (C), Seventy-first street and Greenway avenue. Cost, \$1,500. Warehouse, 1131 Vine street.

T. B. Bronbaum (O), 1206 Chestnut street. Stuckert & Sloan (C), Crozer Building. Cost, \$1,200. Store building, Thirteenth and Sansom streets.

H. E. Churchill (O), 1320 North Fifty-

ninth street. W. C. Scull (C), 5705 Master street. Cost, \$2,500. Store and dwelling, 3307 Woodland avenue.

W. F. Cushing (O), 1118 Snyder avenue. D. Henon (C), 1425 Ritner street. Cost, \$1,050. Store and office, 1118 Snyder avenue.

J. F. Frenz (O), 3145 Diamond street. B. F. Virder (C), 2917 Fletcher street. Cost, \$1,200. Store and dwelling, 1363 Silver street.

O. C. Garnett (O), York road and Olney avenue. W. J. Gruhler (C), 219 High street. Cost, \$1,500. Dwelling, York road and Olney avenue.

F. Schaeffer (O), 711 South Marshall street. A. Bressi (C), 736 South Sixth street. Cost, \$1,600. Storage, 621 Kenilworth street.

J. F. Duffell (O), Amber and Morlan streets. J. D. Fisher (C), 5718 Market street. Cost, \$1,800. Dwelling, 6227 Jererson street.

M. Nixon (O), Nixon and Fountain streets. Cost, \$3,000. Manufacturing. Brown Construction Co. (C), 4600 Main street.

W. B. Horrocks Co. (O), Orthodox and P. & R. R. W. M. France (C), 4437 Frankford avenue. Cost, \$950. Storage, Orthodox and P. & R. R. R.

How to Frame a House, or House and Roof

Framing. By Owen B. Maginnis, author of "Bricklaying, Practical Centering," etc. Illustrated and explained by one hundred and fifty-nine drawings of houses, roofs, etc. Seventh edition, revised and enlarged. Cloth; 6½x9½ inches. New York: The William T. Comstock Company. Price, \$1.50.

This latest revised edition of "How to Frame a House" contains all the material that made the previous editions so useful and valuable, and in addition a great deal of new matter which much extends the scope of the book and furnishes information on many subjects not elsewhere accessible. The main portion, as formerly, consists of a practical treatise on the latest and best methods of laying out framing and raising wooden houses. The system of roof framing is most simple and can be understood by any practical workman. The method of wood framing in connection with brick buildings is also most practical.

In fact, one of the strongest recommendations for Mr. Maginnis' entire presentation of his subject is his direct and graphic method, explained in simple language. This makes the book useful to the practical man without scientific training, and does not injure it for the use of the expert.

The diagrams are as clear and direct in their instruction as the text. The additional matter covers subjects which are not obtainable in other text books, such as the methods of rustic carpentry and joinery, methods of house moving, and miscellaneous framing, such as the building of review stands, grain elevators, boat houses, wooden bridge work and large wooden trusses.

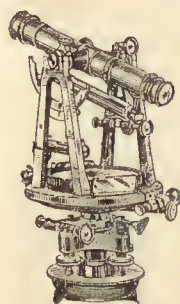
BOOKS RECEIVED

The Hollow Tile House. By Frederick Squires, A. B., B. S. With 215 illustrations, chosen from foreign and American sources. Cloth; 7½x10 inches. New York: The William T. Comstock Company. Price, \$2.50.

If hollow tile houses appear as well when finished as the book which bears their title, they must be good indeed. Yet the things that make up the book are pictures of these self-same hollow tile houses, and as far as external appearances go, the architectural treatments possible in stucco and in the new "texture-tile" are most satisfactory. Mr. Squires has applied his architectural talents to book building, and his result is a most harmonious product. His illustrations have been chosen from a vast supply and he has presented the best work of some of our best American designers. Furthermore, the viewpoints from which his pictures are taken show the dwellings to the greatest advantage and any architect in looking over the work will

appreciate the care with which the illustrations have been studied. There may be beauty in a building and a photograph may most appropriately bring this out if thoughtfully taken, or if awkwardly taken prove disastrous. There is art in photography, and this book, if for no other reason, would recommend itself because of the artistic handling of the illustrations.

The author has given us 15 short chapters which tell the whole story of tile, its manufacture, the English and European precedents



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WEILER'S PROSPERITY TALK

A Heart-to-heart Trade Talk That Was One of the Biggest Hits at the Recent Builders' Supply Association Convention

(At the Fifteenth Annual Convention of the National Builders' Supply Association, held at Chicago, February 17 and 18, Mr. Weiler read the following paper.)

The subject assigned to me for my little gossip with you is "Prosperity," and perhaps the reason may be that we are all hunting for prosperity and are willing to listen, for a while, to anyone who thinks he has found its trail in the road we are traveling.

I recall that in February, 1907, during an address before our association at Columbus, I made the rash prediction that the country was rapidly approaching a disastrous panic. In September of that year the panic swept down upon us with a rush that dazed us all.

Again, in February of 1908, at our convention in Chicago, when the black cloud of that short and sharp squall showed signs of clearing, I predicted that the worst was over and that we were already on the up-grade, and you all remember the marvelous rebound felt in all lines of business immediately thereafter, and the era of great expansion which then followed.

Now, having hit the bull's-eye twice in succession, I feel that I had better retire from the "prediction" business and sidestep any further attempts to pose as a business prophet, and, to be entirely frank with you, I haven't the least idea what fate may have in store for us this year, and whether times are going to be good, bad, or indifferent.

These are great days for quack doctors to be called in to prescribe for all our real or imaginary political ills, and after swallowing the dose of a reduced tariff without having felt any change, we are now facing a different pill in the shape of a new currency law that few understand and even those few disagree as to its action.

Business to Run Smoothly.

Of two leading bankers in this city, one says that it is going to be a howling success, while the other predicts that it will be a dismal failure, or words to that effect. "Who shall decide when doctors disagree?"

The probability is that both are wrong, and that we will be able to adjust ourselves to the new financial conditions without much of any disturbance.

Certainly somebody is going to be as disappointed as the little girl who came home late to dinner and said: "Now, mamma, please don't scold me for being late, for I have just had an awful disappointment! I was downtown when I saw a horse fall in the street, and a crowd gathered around, and someone called, 'Send for the horse doctor;' so I waited, because I wanted to see the horse doctor, and after I waited a long time, finally the horse doctor came, and oh!

mamma! I never was so disappointed, for that horse doctor was only a man!"

When the currency bill gets into full operation none of us need flatter ourselves that we are going to grab twenty dollar gold pieces out of the air like a vaudeville magician, nor are we in any great danger of being obliged to get all our meals at the public soup houses.

The road to prosperity runs through Economy Alley, down Sobriety Street and along Industry Avenue, and leads straight to the suburb of Retired Capitalists; and the man that follows the blind guide who claims he has found a short cut to wealth will generally run into a stone wall at the end of the lane.

A mail-order genius once advertised that for a small fee he would send directions of a "sure way to get rich!" and to the suckers who responded, he wrote one line:

"Work like the devil, and don't spend a cent," which was unnecessarily crude, but undeniably certain!

However, no one wants prosperity at that price, for it would take all the optimism out of life, and if I were asked what is the most valuable asset in the world I think I would answer "Optimism." Assuredly:

" 'Tis easy enough to be pleasant,
When life goes by with a song,
But the man worth while,
Is the man who can smile,
When everything goes dead wrong."

"You can't keep a good man down," as Jonah said to the whale, when he gaily skipped out of the interior flat, and the rightman on the road to prosperity never feels it when he stubs his toe, but plunges along with his never-fading smile and does not stop to apply quack nostrums to little sores.

New "Creed" Preaches Optimism.

Recently, on a blue, dismal day, there came to my desk from the Chase National Bank of New York, a beautifully printed wall-card headed "A Patriotic Creed," and when I read it I felt the glow of a fresh optimism which irradiated all the day, and the petty troubles of the hour dissolved like a morning mist.

I think I recognized in the "Creed" the master-mind of my old-time boyhood friend down in Central New York—Henry W. Cannon, former Comptroller of the Currency under the Arthur administration, and later president of the Chase National Bank and the New York Clearing House.

I wish every tired business man could have on his desk at home a copy of the "Patriotic Creed," which follows:

"We believe in our country—the United States of America.

"We believe in her constitution, her institutions, and the principles for which she stands!

"We believe in her future—the past is secure!

"We believe in her vast resources, her great possibilities—yes, more, her wonderful certainties!

"We believe that what are termed 'times of business depression' are but periods of preparation for greater and more pronounced commercial successes!

"We believe in the American people, their genius, their brain and their brawn.

"We believe in their honesty, their integrity, their dependability.

"We believe that nothing can stand in the way of their commercial advancement and prosperity."

Brothers of the National Builders' Supply Association, let us all keep looking forward! We may not see the growth we want from day to day, any more than we can see the hour hand of a clock move, yet we know it is moving all the time, and so we know that the tide of business is always moving and growing.

During my business life time I have seen the population of the United States double! and I am a temperate man, too!

Population to Double in Lifetime.

During the lifetime of some one of you present, you will see the population of the United States double again. That is a most compelling thought. A hundred million more people wanting homes, food, labor, livelihood, all the multiform and complex needs of modern life! The human mind can only be stunned and staggered by all the amazing expansion of business that is unrolling before us! Let that thought sink into, and become absorbed by, your consciousness, and you cannot help being the wildest kind of an optimist.

The business world loves the cheerful man as music as it hates the chronic grouch, and it costs so little to be happy that merely wearing a comfortable grin on one's mug generally induces a comfortable feeling, drives out many a blue devil, attracts friendly recognition, paves the way to numerous successful deals, and is a good, all-around, free prescription well worth taking.

Weiler's Theory—and How It Failed.

Some years ago I was walking one morning down the two-mile stretch between my home and office with my neighbor and friend, Frank Beals, a prosperous, busy shoe manufacturer, and Beals was bitterly complaining of his hard luck in being called on a jury and that he was continually being drawn for this service. He was groaning dismally over his hard luck, whereupon some perverse imp prompted me to say, "You certainly seem to be in hard luck, Frank, and I sympathize with you all the more because I never was called on a jury in my life!" And Beals stopped short and cried, "Well! how do you account for that?" and I replied, "Well, I have a theory about it which may not be right, but it seems to me that it fits the

case. My theory is that names are taken from a poll list and they commence with the A's and long before they get half way down the list they have all the names they need and all the W's and X's and Z's escape. Of course, that's only my theory, and you can take it for what its worth." Beals replied: "Well, I am going to find out the names of my fellow-sufferers and see if you are right, and I'll raise sheol about it if you are!" And I walked comfortably to my desk and soon forgot all about it. Along towards noon a big Irish cop walked in upon me and said, "Air yez Misther Chairles Woierler?" and I said, "I am—that!" and then he handed me a little slip of paper informing me that I had been drawn on a jury! And then I gasped and spluttered, "Why, see here, Casey, there must be something wrong about this! Why, I never served on a jury in my life!" And Casey responded, with a broad grin, "Yis, the jury commissioners heard all about your theory at the City Hahl this maarning, and Oi'm a-thinkin' yez will be drawn on a jury now ivery year to make up for losht time!"

The evening paper came out with this little story, about as I have told it to you, with staring headlines reading: "Weiler's Theory—And How It didn't Work."

Aside from the ordinary, common-sense need of keeping your own counsel about your own affairs, there is nothing in the situation to-day that need prevent any and all of us joining the Boosters' Club, for it still remains a certainty that the present huge supply of all kinds of building materials is going to be absorbed, and, before we realize it, the supply will again have to be expanded for the colossal and growing needs of America.

It is not much to say that there is well-grounded hope for a happy new year for every worthy business man. The more all of us think and feel that way the surer we shall be to have our expectations realized.

As sunshine is the best natural disinfectant, so optimism—the sunshine of the spirit—is the best antiseptic against the "yellow streak" of self-induced misgiving about the future that militates most against its success.

People Ought to Feel Sanguine.

The government report, published in January, showed that our departed friend—1913—was the banner year in crop production value in the United States. With that enormous increment of newly created basic wealth poured into its lap, the country ought to be prosperous.

And it ought to feel sanguine. That is what we need!

Hypochondria in the individual is a morbid state of mind, and a strong, hearty, full-fed man, moping around over imaginary ills is a puling spectacle who does not invite respect. So is a nation in a life frame of mind, that, with a lapful of blessings, cultivates a state of doleful dumps over bleak possibilities that are utter improbabilities.

Rightly read, the national barometer is

rising, and should soon point to continued "Fair."

The propensity to both bewail our misfortunes and yet to "hang on," reminds me of the conundrum of a small member of my family, who prod this bewildering inquiry at me: "Uncle Charlie, what is it that you have got, that you don't want, that you never did want, that you would be glad if you had never had it, and yet you wouldn't sell it for a million dollars?" It was my bald head!

I have rather hastily outlined the prospects of prosperity in the general situation, but I know that what interests you, in a much greater degree, is your own prosperity first, for as Voltaire somewhat cynically remarked, "The most interesting subject in the world to me is 'Me,' and the most interesting subject in the world to you is 'You.' So I feel that if I could point out a way by which you and I and all of us here could honestly and fairly earn a larger measure of prosperity than we now have, we would be very much more interested in it than in tariff-bills and currency-measures and crank politics. And so, I think you will agree with me that the hole in the skimmer through which our profits ceaselessly dribble away, and which keeps us working like the devil and not saving a cent, is competition—wild, crazy, cut-throat competition; and the missing plug to stop that hole is co-operation—fair, legal, honorable co-operation!

Perhaps that is something of a pipe-dream, yet instances are not uncommon where ordinary common decency and common sense have paid good returns in comfort, to say nothing of dollars.

"Trade Conditions in Hackensack."

I recently dug out of a pile of similar matters, an old article written about 1906, descriptive of how five mythical dealers in cement, in a mythical town, had fought each other to a standstill, until they took a tumble to themselves and got acquainted with each other, and as novelists say "lived happily ever after." Now, if you will bear with me a few minutes more, I would like to take you through this hurriedly, and leave it to your reflections, promising that I will have to leave out a part of it, which was obviously a matter of private and not public discussion. However, enough is left of this mutilated and whimsical sketch to give us subject for thought as to whether it is good policy to fight your competitor till you kill off each other, or whether it would not pay better to shake hands and be friends. This little skit has the rather grim title, "Trade Conditions in Hackensack."

Hackensack, New Jersey, is bounded on the east by the Atlantic Ocean and on the west by the United States.

Hackensack is, so far as I know anything to the contrary, a perfectly good town. I have never heard anything against it; I have never heard anything for it. In fact, I never heard of it before, and its trade conditions don't interest me in the least. For the Hackensack I am exploiting is not in New Jersey. You may find it hard to

locate it on the map. I can't locate it myself, and I'll be blown if I know where it is; but this I do know, and know it mightily well, "the men and their trade conditions in the cement trade and every other trade, and the ideas and prejudices, and the plots and the counterplots, and the ups-and-downs of the business life of Hackensack are just as alive, and as real, and as easily managed, and as easily mismanaged, as obtain anywhere between Long Island and Los Angeles."

I was going down Main street in Hackensack a couple of years ago, and reaching the Hibernian National Bank "I bethought me" of a coming cup competition at our golf club, and went in to talk it over with that enthusiastic foozler, the president of the Hibernian National Bank. I found the president comfortably chatting with the cashier, and had a few minutes satisfactory gossip with them, which was finally cut short by Jabez Smith walking up to the little railed enclosure with his breezy, hearty smile and handshake.

Jabez is the oldest and largest cement dealer in Hackensack, an upright man and model citizen, and one of the most popular men of the city. So we were little prepared for the angry manner in which he blurted at us:

Objects to Competitor Joining Club.

"Say, what do you fellows mean by crowding Jim Brown into our golf club? Ain't we got enough crummy members without running in a piffing pup like Jim Brown. Who stuck his name upon the bulletin board for membership anyway?"

"None of us did," said the president, "and what Jim Brown do you mean, and what's the matter with him anyway?"

"What's the matter with him!" roared Smith, "why I told you what's the matter with him. He's a piffing pup; that's what he is, and I'm the man who knows him, and you betcher life I'm going to cast one of the three black balls necessary to keep him out of a gentleman's club, and you fellows want to do your share too, if you expect me to stay in."

"Do you mean Jim Brown, the cement dealer over on Kosciusko street?" asked the banker.

"Sure thing," said Jabez Smith, "ain't it just like the piffing pup to jam his way into our club! Why that fellow don't seem to know that the devil has got a mortgage on his soul, and he is fat-headed enough to think he can get past St. Peter when his time comes! Say, that fellow will lie and cheat and steal and swindle, and he would commit every crime in the calendar if he thought he would escape detection. He has been doing a losing business for years, and he's on the ragged edge. Take the tip from me, old man," said Smith to the president, "and don't you ever lend him a cent without kissing it good-bye. I'll tell you just the kind of yellow dog he is. You fellows all know Jorkins the contractor, don't you, and you know what a square, straight fellow he

(Continued on page 213.)

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Editorial Comment

In spite of the fact that "Life" in its current number describes the coast as "a geological afterthought thrown up long after the rest of the continent was dry and getting into shape," and refers to "the very land of it" as restless and threatening "from time to time to leave the union and slide back into the sea," there is a certain freshness of viewpoint about Western opinion upon things Eastern that is not infrequently more or less engaging. A Western architect, Mr. William H. Newman, following a trip to the East, whither he journeyed to attend the annual convention of the Society of Constructors of Federal Buildings, indulges in some characteristically breezy and unconventional comment on the architecture of the older and more effete communities through which he passed. We are indebted for the opportunity to reprint these observations to "The Architect and Engineer," of San Francisco.

* * *

"It is gratifying to note the material improvement architecturally," writes Mr. Newman, "in the buildings that are now being erected in the larger Eastern cities, especially in the more general use of fireproof materials, architectural bronze, fancy marbles and mosaic ceilings. A great deal can be said of the quaint and very interesting homes and other landmarks in the older sections of New Orleans and Baltimore, but there is probably nothing more inviting on the continent to the Western architect than a ramble among the magnificent public and semi-public buildings in the Capitol at Washington. Next to the Library, the Pan-American Building meets with the heartiest appreciation. Both inside and outside, in design and execution, it has such an appeal as to bring forth the architect's exclamation, 'Good.'

"The convention I attended in Washington was a most successful one, having for its object the standardization and improvement of methods used by the Government in unifying and expediting the construction of Federal buildings. These matters had the attention of members of Congress and of President Wilson's Cabinet, and there promises to result through this educational process a better appreciation of art and architecture. A few days' stay in the New York metropolis enabled me to enjoy the beauties of the Woolworth and new municipal buildings, the Custom House and Library, and to view the luxurious homes and apartments on Riverside Drive, together with Columbia College, St. John's Cathedral and Union Theological Seminary, which latter group is admirable for its fine Gothic feeling and execution. The Metropolitan Museum of Art is within and without very attractive to an architect. For a good interior in polychrome terra cotta, together with an oyster and a hot bird, etc., I would recommend the McAlpin grille.

"In Boston Messrs. Peabody & Stearns have something creditable under way in the new addition to the Custom House which is towering into the sky line a la Oakland City Hall.

"Down town Chicago is still as smoky as ever and discouraging for any architect (but a blind one), for after a few months it is impossible to tell the architect's color scheme of a building, let alone the material used on the exterior. But there are some splendid interiors, notably those to be found in the La Salle and Blackstone Hotels, the Pompeian Room in the Auditorium, and the new People's Gas Building, the latter unquestionably the late Daniel Burnham's best work. For a first-class interior terra cotta job it would be hard to improve upon the Railway Exchange. The glass Mosaic ceiling in Marshall Field's is also worth seeing, being executed in blue.

"Out here on the Pacific Coast every now and then we hear the local architect unfavorably contrasted with his Eastern brother, but you can tell that one to 'Forget it' when you recall seeing in the East the all-too-many good projects spoiled by faulty design or improper selection of materials used.

"How many local architects could get by with such a number of big, ugly and prominent patches as you will find on the exterior columns of McKim-Mead & White's Pennsylvania Railroad Station in New York, or how many would last a week in San Francisco after such iron rust stains began to checker with ocher the granite walls of that important and costly new Scottish Rite Cathedral in Washington, is problematical."

* * *

If you find Mr. Newman's views irritating in a certain iconoclastic quality you will find balm in another paragraph from the editorial in "Life" with which this little article begins. "Perhaps," observes "Life," "it is this newness and shakiness of the land that gets into the people who go to the coast, and makes them so hospitable to all the novelties and distrustful of all the stabilities of political and social life. The whole shore is just now a sociological museum and laboratory of political experiment, run as though the whole world was newly made and civilization was in its first stages of discovery."

* * *

Here is another breezy Western view which is distinguished by a strong undercurrent of good, sound common sense. It is from the pen of Mr. Herbert Booth King, who labels it "The Practical in Architecture":

"Skill and knowledge more than genius," writes Mr. King, "are the important factors in modern architecture. To enclose a piece of ground with four walls and sub-divide it to meet certain prescribed requirements is more of a mathematical than an artistic prob-

lem. When, in addition to this, the commercial side demands economy, stability and a fin de siècle equipment, new responsibilities occur of a decidedly practical nature. The tendency of many architects to clothe themselves with an almost impenetrable armor of reserve (and even disdain) when approached by the man behind the mixer, the hod or the plane, is not justified by their relative importance—for one could better eliminate the Italian glow than the Irish bog. The architect who lives continually in the atmosphere of his academic training is often a dreamer and of little use excepting for Moorish villas, Swiss chalets, Spanish pagodas, Indian kiosks and similar importations. A modern apartment house, hotel or factory, when careful study is required of working drawings rather than perspectives, does not appeal to him.

* * *

He is like a tailor who studies lines instead of linings, who adheres to texts to the disregard of textures. The practical tendency of architecture has led to a division among the architects themselves. Certain theorists, not being overburdened with orders, settle down as teachers of architecture instead of practicing architects—at least one seldom hears of them excepting through long-winded addresses at Institute meetings, when they delight to expound the "ethics" of the profession and deplore the decadence and venality of certain of their brethren.

"They become like Greek statues, objects to be adored at a distance, but seldom approached by the vulgar horde of capitalists and builders. It is a joy to have a few men of this class in any profession or business—they lend color and tone without causing much disturbance among the activities. They use as a fetiche to explain their inaction, 'It is unprofessional to solicit orders,' and sit undisturbed in their artistic dens, preferring to be lionized rather than employed. It is this tendency of the old-time architectural bodies to knight the dreamers and condemn the workers that has led to the formation of competitive organizations where mathematics will stand for more than astronomy or stargazing, and where the European sketch book will not be consulted oftener than the practical publications and the manufacturers' catalogues. This seceding class believe that 'a new idea is born each day' which will be of use to them and are watching out for the modest leaflet or the timid stranger that will acquaint them with the newest development which will add to the practicability, efficiency or permanency of their work, and they find in every co-worker, however humble, a valuable contributor to their fund of information.

* * *

Such an architect is a seeker after knowledge, and every new building he plans shows the result of his hospitality and receptivity and is not a mere duplicate of the last one.

"The late George Post was approached by a gushing female who said, 'Tell me, Mr. Post, what is the foundation stone, the first requisite, the essential factor in your noble profession of architecture?'

" 'Getting the job!' growled out the old war horse.

"If she had propounded another inquiry as to what had contributed most largely to his success, he would doubtless have replied, 'Knowing how to use other people's brains and not depending entirely on my own.'

"Success to the new movement!—which means a shaking off of the old shackles of conventionality and precedent and emerging into a broad atmosphere of auricular and visual contact with the building world and an absorption and appreciation of its developments and accomplishments."

WEILER'S PROSPERITY TALK.

(Continued from page 211.)

is. He's my biggest and best customer, and he'd never buy his cement of anybody else unless I sometimes tell him to, for good reasons. You see Jorkins goes around and gets the figures of Brown and Nelson and the others, and comes and tells me what they are, and sometimes I take the sale, and sometimes I don't. Well, never mind why; it just depends. Well I just met Jorkins on the street, and I says to him. 'How about that 4,000 barrels of cement that you are going to use on the new Jump-up & Step-and-Fetchit factory,' and Jorkins says to me:

Brown Willing to Cut Price.

"Well, you see, Jabe, it's just like this. They've all got the same price—a dollar a barrel—except Jim Brown, and he said he would make it 95 cents, just to get it away from you.' 'Holy smoke,' says I, 'a dollar a barrel, and 95 cents from Jim Brown! Well, what do you think of that! There ain't one of the whole condemned bunch but what loses money on a dollar price! Why, my cement costs me over a dollar, and I buy for cash, and the rest of these cusses have hard work to get any sucker to sell them at any price, for they're all just about broke.'

" 'Well, you see how it is, Jabez,' said Jorkins, 'I want to buy of you, and I always give you the first and last show, but I guess I've got to buy of Jim Brown this time, for it's plain you can't afford to make his price, and I don't ask you to lose any money, but you can see when I am offered a 95-cent price, I couldn't afford to buy of my own brother if he was in the cement business, at any higher price, now could I, Jabez, honest? Of course, you can have it at 95 cents if you want it, but if I was in your place, I'd let Brown have it and let him lose the money.'

" 'Not on your life, Jorkins,' says I, 'I ain't going to let that piffling pup go around giving me the big laugh at getting my solid trade away from me. I've got some money ahead, and I can afford to give Brown a whirl that will make him dance. Of course, I'll take the job at 95 cents, and I'll get even with him some time. He won't know what hit him when I get through with him.' "

"That's tough, Smith," said I, "I'm glad I ain't in the cement business."

"Too bad," said the cashier.

"Too bad; too bad," said the president, as Smith stalked stormily out, "I sympathize

with you, Smith, by Jove, I sympathize with you!"

After he had gone, I said to the president: "Say, I know Jim Brown a little, and I don't think he's a half-bad fellow, is he?"

Jim Brown Puts in Appearance.

"Well, I should say not," said the president, "why, Jim Brown is the salt of the earth; a straighter, squarer, whiter fellow never lived. I'd let him hold my pocket-book over night, and know he would hand it back to-morrow without ever looking to see what I had in it. Why, here he comes now! How are you, Jim? I see you're up for membership in the Rowdew Golf Club, and am glad that you are coming out and going to be one of us."

"Well," said Jim, with his sunny, good-natured laugh, "don't you think I am going to get my fatal three black balls?"

"Nonsense," said the president, "of course you have made up your mind you will get one, but that's all you'll get, and you can afford to laugh at that."

"Well, I don't know," said Jim. "That's the one reason why I have hesitated so long about sending in my application. You are all gentlemen, and all friends of mine in that club, except one man, but that exception is like a toad jumping into your glass of beer—somehow you don't hanker much for the beer afterwards."

"Oh! well now, Jim," said the president, "don't mind Smith. He's one of our charter members, and what's the matter with him anyway?"

"What's the matter with him," shouted Brown, angrily. "I'll tell you what's the matter with him, and I ought to know, for there ain't a man in Hackensack that knows him as well as I do. He's just a plain piffling pup, that's what he is! Say, that fellow will lie and cheat and steal and swindle, and he'd commit every crime in the calendar, if he thought it wouldn't leak out. He's been doing a losing business for years, and if he asks you to lend him any money, look out for him. That's all I've got to say! I'll tell you just the kind of yellow dog he is. You fellows all know Jorkins the big contractor, don't you, and you all know that a straighter, squarer, and more truthful fellow never lived; don't you, now?"

"Sure thing," we all murmured.

"Well," said Brown, "Jorkins came in yesterday and said he would like to give me the contract for 4,000 barrels of cement on the new Jump-up & Step-and-Fetchit factory buildings, but that he found that Nelson and that German dealer—what's his name—Rauschenberger, and Jabe Smith all seemed to have it in for me, and were determined to take it away from me, even if they lost money."

Selling Below Cost Price.

"Now, you fellows know," continued Brown, "that Jorkins is my biggest and best customer, and that nobody can get him away from me without some dirty skullduggery. Well, Jorkins did floor me when he told me that two of them made him a price of a

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straight dollar, and that the other one, Jabe Smith, said that he would give him a special confidential price of 95 cents. 'Great Caesar, Jorkins,' said I, 'there can't any of us make you any such price! Why cement costs me more than a dollar on cars here, and I'm the only dealer in town who pays cash and can buy on the bottom. These other cheap skates haven't any credit, and have to depend on some poor sucker of a manufacturer to supply them, and they can't furnish you at any such figure, unless they expect to swindle the mill, and then you can look out for liens and garnishments.'

"Well," said Jorkins, 'I don't know anything about that, and I'd make any of them but you give me a bond to protect myself, but as I told you, Smith knows I am partial to you, and so he's got it in for you, and I can see he will lose money just to make you envious, and I don't ask you to take 95 cents, Jim, unless you want to, but you can see I couldn't afford to pay my own brother, if he was in the cement business, a dollar or more, when Smith is just hounding me to buy of him at 95 cents.'

"Well, I just thought it over, and I says to Jorkins, 'All right, buy this time of Smith, but when that Snake River Dam job of 10,000 barrels comes up, you just keep me posted, and I'll make Smith wish he'd never played any such low-down trick on me.'

"Well, fellows, I must be going, but you can see why I am not specially anxious to belong to any club that has Jabe Smith in it."

And the president said, "To bad! too bad! I sympathize with you, Jim, by Jove, I sympathize with you!"

Then the president turned to me and said, "Now wouldn't that jar you. You heard both these fellows talk, and you'd think each

was as low down as they make 'em, while the plain fact is, that both are as sound as a dollar in every respect, and I'd bet my last cent on either of them. Of course there's nothing at the bottom of all this but the contractor Jorkins, and singularly enough, you take Jorkins away from his business and he's all right too. His word is as good as gold on any other subject, but when he comes to cement, he just goes from one cage to another and pokes up the animals and gets them to chewing each other."

"Do you think he has been to the others?" said I to the president.

Swede and German Refuse to Cut Prices.

"Why, of course," he replied, "I heard all about this from the others when they came into the bank yesterday. Nelson told me that Jorkins had called on him, and told him he was willing to give him this contract, to get out of the clutches of Brown and Smith, and show them they didn't own him, and if Nelson would make the same price he could have the preference, and Nelson was highly flattered, and said that he would make as low a price as anybody, for he was the only dealer in town who paid cash for his cement, and had the lowest expenses, but when Jorkins told him the price was 95 cents, Nelson said:

"Aye gass not, Maister Yorkins, Aye bane purty big fule, but aye baint so big dam fule like dem fallers. Yu give dem de yob. Aye don wan' it."

"As for Rauschenberger, that honest Dutchman said to Jorkins, when he told him just the same yarn he did Nelson:

"Got in Himmel, Miester Chorkins, I don't can afford no sooch a brice. Mine cement costs me more dan ein tollar, und I is der only one here dot pays gash, and so I gets him der sheepest. You gifs der odder fellers de gontract and dells 'em for me dey gan all go der h——!'"

"Well," said I to the president, "I suppose you said it was too bad, and you sympathized with them."

"Of course," said the president, "why?"

"Oh, I just thought," I replied, "that you might have given them a hint about Jorkins and let it go at that."

"You talk as if you had just been weaned," said the president. "Now, if you saw a man and his wife fighting on the street, what would you do?"

"Run like the devil in the opposite direction," said I.

"Right you are," said the banker, "and I am just running away from fights all the time. Every day I sit here and listen to long strings of just this kind of talk. Druggists, shoemakers, grocers, barbers, even ministers, go over the same old story with me every day, every yarn just like the rest, yet each man thinks he is telling me the newest and most exciting thing I ever heard. Oh! it's just awful to sit here and listen to this clack all the time."

"Too bad; too bad," I murmured, "I

sympathize with you, by Jove, I sympathize with you! But say, you must be thankful there is one branch of business that is entirely free from this."

"What is it?" asked the president.

"Why, banking," I replied.

"What!" yelled the president, "you are getting weak-minded! Why banking is the worst of the lot! You take the president of the Nineteenth National Bank, around an Arapahoe street. Why that fellow is a regular piffing pup! He will lie, steal and cheat and swindle, and would commit——"

"Excuse me," said I. "I can't stay any longer this morning. I'll come around and listen to the rest of that soon."

Hackensack's Most Important Man.

Walking down the street later, and thinking over these cement troubles, I met Mr. John Oaker, on account of his name, and because he is the liveliest card in the pack, popularly known as "Joker," a man beloved of everybody. He is an insurance agent, with plenty of time at his disposal, and "The Mutual Friend" of Hackensack. Keep your eye on Joker. He is the most important man in this little sketch. Straight, fair, hopeful, and helpful, the world is better off for such men as Joker.

"Hello, Joker," said I, "I was just thinking of you, and I want to consult with you. Come in here and surround a couple of glasses, and I'll tell you something. You know Smith, and Brown, and Tom Snow, and Nelson, and old man Rauschenberger, don't you?"

"All five cement men," said Joker, "sure thing I know 'em, and know lots of good things about 'em too, and not one bad thing. What are you driving at?"

And then I gently, but firmly, led him into Gus's place, and told him all the foregoing yarn, just as I have told it to you, at which Joker laughed so uproariously and pounded the table so hard, that Gus had to fill up the glasses again.

"Now, Joker," I said, "you agree something ought to be done for this bunch. I see you do, and, Joker, you're just the man to do it. I want you to get these fellows together and stop their fighting, and its such a little, simple, easy thing to do, that I am ashamed of you, Joker, not to have done it long ago."

"Right you are," said Joker, "I see what you want. It's your idea to have all these fellows meet and form one single, central company to do all the cement business of Hackensack, and all five own the company. That's the ticket, ain't it?" and Joker smiled fondly at me.

"Joker," said I, "I congratulate you, and admire your powerful intellect. I always said you could see anything that was a mile high, provided you were pretty close to it, and it was bright daylight. But, Joker, that wasn't what I had rattling around in this empty skull of mine at all, for your idea overlooks one little flaw. There are about sixty reasons why it won't work. The first is, that it's against the law, so we needn't mind the

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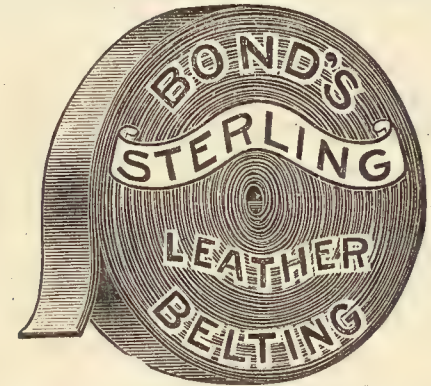
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other fifty-nine varieties. Now don't tell me that such a law is silly, and no one minds it, for if the Hackensack Consolidated Cement Company should get to work, what would be the result? Why, everybody would say that there is now only one place to buy cement in Hackensack, and it's a good time to start some more and advertise 'Not in any Trust.'

"Oh! yes, I know that there would be the original five fellows in the business just the same, each making a living out of it, just as before, only handling it cheaper and better, and so being able to furnish cement cheaper to Jorkins and the rest. And I know just as well as you or any other man outside of a lunatic asylum, that your idea is the simple and natural way to sell anything, best for the buyer as well as the seller, but—the law don't agree with you. It says the public must have 'open competition,' even if the public has to support a lot of lazy and worthless competitors, and pay like sixty for everything it buys, so if you should start the Hackensack Consolidated Cement Company, within a week there would be five new concerns start in competition, greatly to the delight of Jorkins and the rest. Now, if I have made the objection plain to you, I will tell you what I want you to do. First, last, and all the time, keep your fly-trap shut. Don't tell me or anyone else a solitary thing about your plans, or what you are doing. Talk as freely as you please to Smith about Smith's business, and to Brown about Brown's business, but never say a word to the other about the other's business. Now, Joker, try to be all ears, like a mule, and listen to this:"

Joker Makes Friendly Calls.

At this point we will imagine we are all at a play, and the curtain has dropped on the first act, leaving the author and John Oaker conferring together upon private affairs, and the audience guessing at just what they are discussing.

"Now, Joker," said I, "having listened to all this with your usual long-eared patience, what do you say to going over to Jabez Smith this afternoon, and see what he says?"

And Joker looked at one fly-speck on the wall until I thought he was listening for an earthquake. Yet I knew that active and alert mind was jumping from point to point, with all the grace and ease of a trained kangaroo. And so I ordered another glassful, and he woke up and said to me, "You say you don't want to hear a word from me about all this any time?"

"Never," said I, "I wash my hands of it right here and now."

"Well, so long," said Joker, "I am going to make five friendly calls this afternoon, and I must be going."

Competitors on the Golf Links.

Three months afterwards I was sitting on the porch of the Rowdew Golf Club, when I heard a couple of familiar voices coming around the corner, and I looked lazily around and saw Jabez Smith and Jim Brown walking towards the first tee, with broad smiles and much laughter as they chaffed each other, when a loud voice rang out, "Hold on, you

fellows, I'm hurrying up to join you. Let's make it a threesome," and the two pals shouted, "You're on—come along—we've been looking for you," and Tom Snow trotted up and sang out, "Say! what do you suppose that confounded liar Jorkins told me this morning about your prices on that Snake River Dam job that Rauschenberger is going to handle. He said that both of you made him a price of—" but by this time they had all passed out of my hearing, and alas! I shall never know what Jorkins said. All I heard then, was loud bursts of laughter floating back to me.

A heavy form dropped into the next chair, and, turning, I saw my fat, jolly friend, Snodgrass, who keeps the department store in City Hall Square. He was looking at the three pals walking away, with an odd expression, as he said: "Say, now honest, wouldn't that jar your false teeth loose? Look at them cement chaps. Good fellows, but sharp competitors and working for business against each other like beavers. I know, because all three are pestering the life out of me to furnish the cement for my new addition, but whichever one gets it, the others forget all about it, and they come out here and play golf together, and act just as if they were born triplets. They are all just like that. Everybody gets along with their competitors, except the darn fool dry goods men!"

"Why," said I innocently, "what's the matter with the dry goods men?"

"What's the matter with the dry goods men!" shouted Snodgrass in a rage. Why, there are 58 dry goods men in Hackensack, and the whole 57 are just a pack of pitiful piffing pups. Everyone of them will lie and steal and cheat and swindle and commit every crime in the calendar, if they thought they would escape detection. That's the kind of competitors I have got to get along with. I don't have any such decent men to compete with as those cement fellows. Not on your life. My competitors are just the rag, tag, and bobtail of humanity. Just a pack of piffing pups—that's what they are."

And I murmured, "Too bad; too bad! I sympathize with you, Snodgrass, by Jove, I sympathize with you."

Here ended the parable of the five cement dealers of Hackensack.

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It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

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Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

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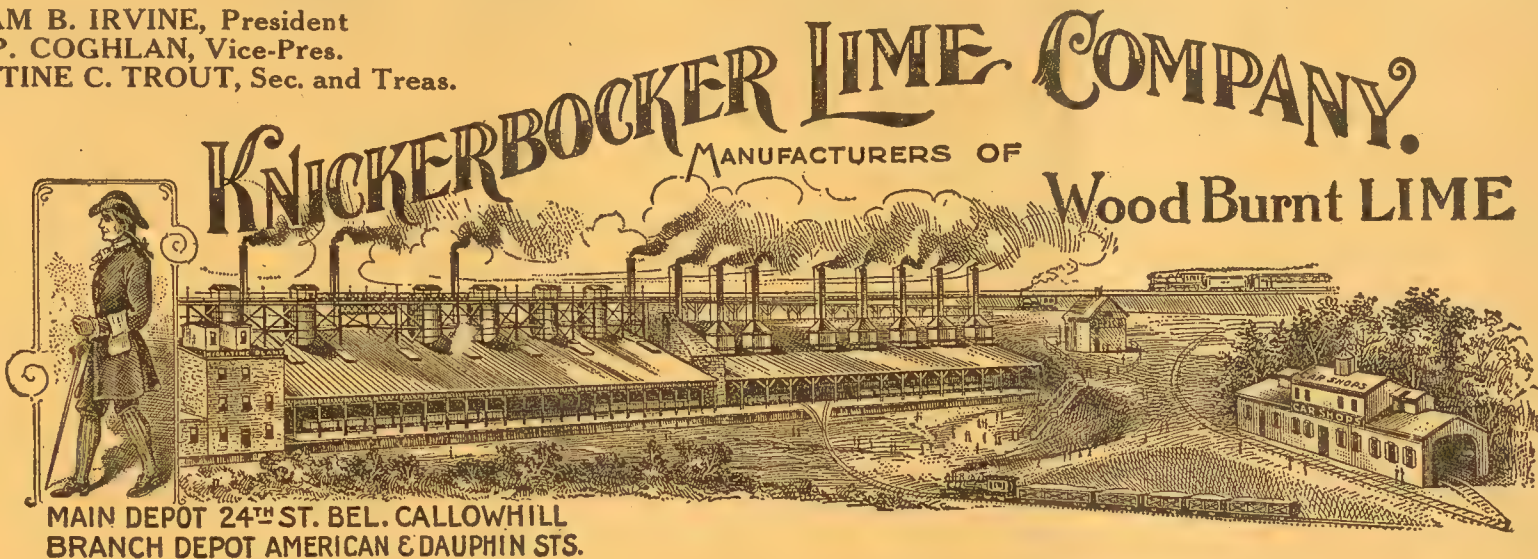
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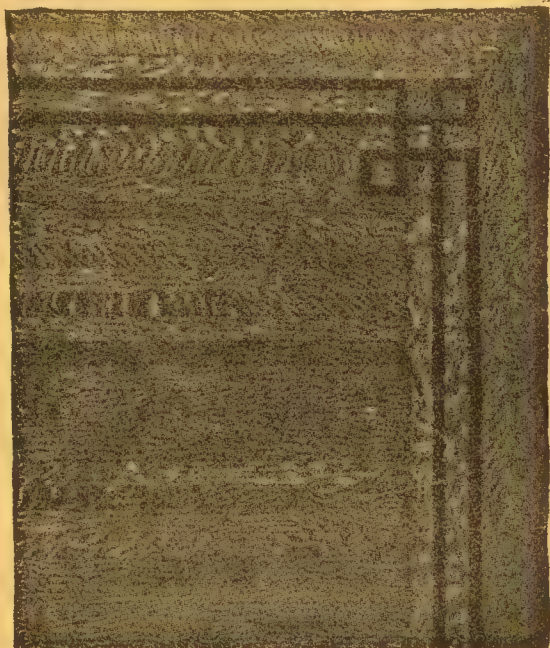
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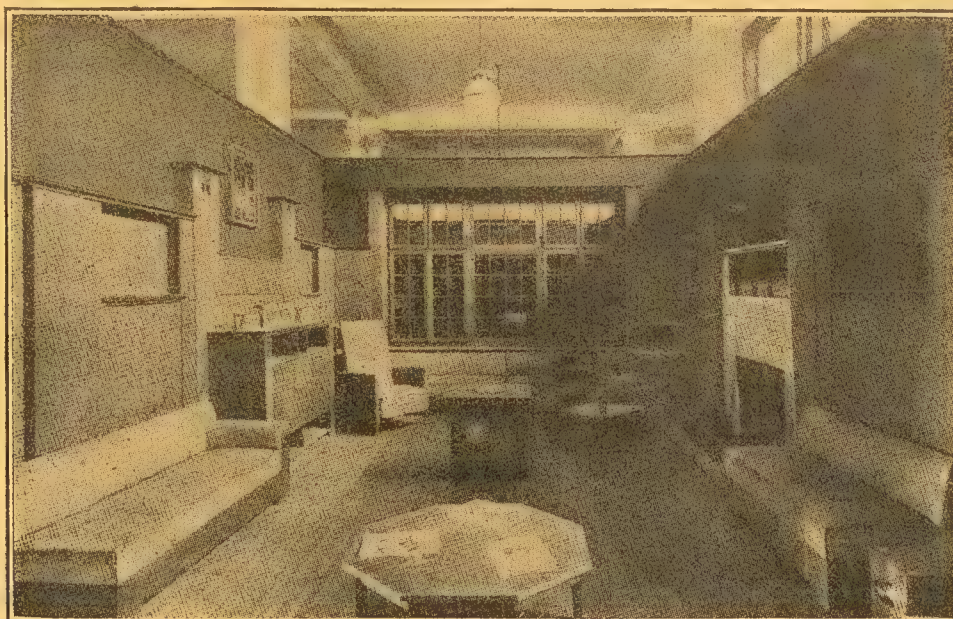
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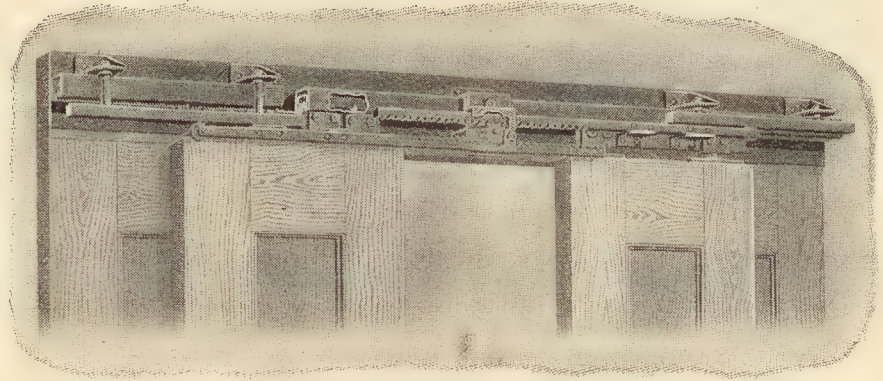
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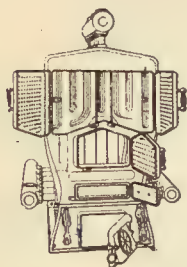
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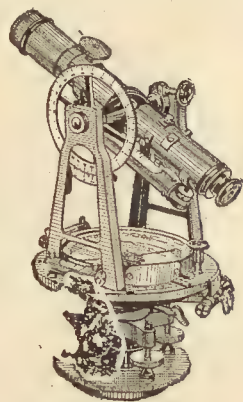
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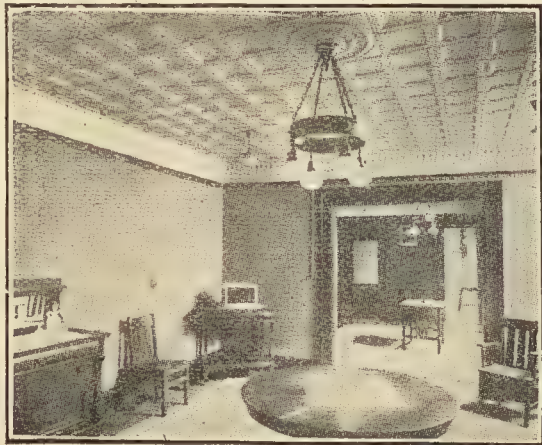


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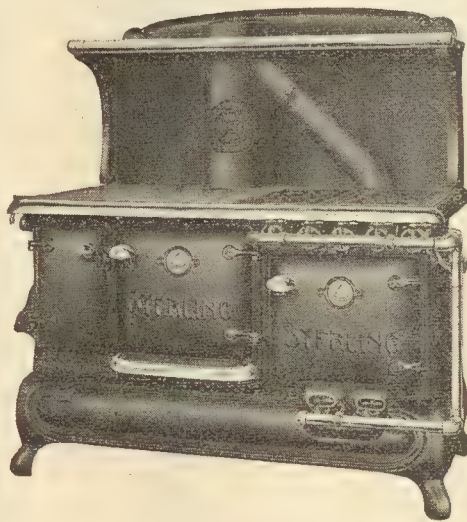
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Vol. XXIX., No. 14.

PHILADELPHIA, WEDNESDAY, APRIL 8, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence alt. and add., southeast corner Sixteenth and Latimer streets. Architects, Mellor & Meigs, 205 South Juniper street. Owner, Edward Browning, 1511 Locust street. Brick, 3 stories, addition, 10x20 feet, tin roof (hot-air heating, electric work, reserved). Architects taking bids due April 9th. The following are figuring: Frank J. Treston, 2343 North Twenty-second street; H. H. Burrell, 1204 Chancellor street; A. H. Williams & Sons, 411 Locust street; George & Borst, 277 South Eleventh street; Thomas Little & Sons, 1713 Moravian street.

Warehouse, Main and Gay streets. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, Missouri Mills, George W. Davis, on premises. Brick, 3 stories, 46x63 feet, slag roof, metal sash and frames, steel rolling shutters, metal lath (heating and electric work, reserved). Architects taking bids due April 11th. The following are figuring: Smith-Hardican Co., 1606 Cherry street; R. J. Whiteside & Son, 2115 Wallace street; F. E. Wallace, 1210 Sansom street; E. L. Culbertson, 334 Roxborough avenue; William H. Eddleman, 453 Green lane, Roxborough; C. O. Struse & Son, Walnut lane and Cresson street, Manayunk, Philadelphia.

Residences (46), Fifty-third street and Cedar avenue. Architect, private plans. Owner, James N. Mitchell, 4 South Markoe street. Brick, slag roof, 2 stories, 15x24 feet, hot-water heating, electric lighting, hardwood floors. Plans in progress. Owner will take sub-bids.

Residence, Coulter street, Germantown. \$14,000. Architect, L. V. Boyd, Harrison Building. Owner, W. P. Barba, 5147 Morris street, Germantown, Philadelphia. Stone, 2½ stories, 42x51 feet, electric lighting, hardwood floors. School Lane Land Co., Witherspoon Building will award sub-contracts.

Apartment House, Broad and Ellsworth streets. Architect, George I. Lovatt, 418 Walnut street. Owner, Mrs. Watson, care of architect. Brick, 3 stories, 60x30 feet, tin roof, steam heating, electric lighting. Architect taking bids. The following are figuring: M. J. Lazaroff, 1418 South Sixth street; H. C. Dahl, 231 South Eighth street; W. T. Mil-

ler, 627 Filbert street; Donato & Buro, 809 South Eighth street.

Factory (add.), Eleventh and Wood streets. Architect and Engineer, Franklin Co., Crozer Building. Owner, W. H. Jarden, on premises. Brick and concrete, 4 stories, 22x70 feet, slag roof (heat and light, reserved), waterproofing, metal sash and frames. Architect taking bids due April 10th. James G. Doak & Co., Crozer Building; George F. Pawling Co., Broad and Vine streets. Irwin & Leighton, 126 North Twelfth street; Harrison C. Rea Co., 1027 Wood street; H. E. Baton, Twelfth and Sansom streets; Barclay White & Co., Perry Building, and Turner Concrete Steel Co., 1713 Sansom street, are figuring.

Parochial School, Holmesburg, Pa. Architect, H. A. Dagit, 411 Walnut street. Owner, St. Dominic's R. C. Church, care of Rev. L. J. Wall, Holmesburg, Pa. Stone, 2½ stories, 44x86 feet, slate roof, hot-water heating (steam heating, reserved), electric lighting, metal ceilings, fire-proofing. Architect received bids April 4th. J. A. Haid, 8029 Frankford avenue; Hoffmeier & Sons, Andalusi, Pa., and D. W. O'Dea, 5219 North Fifth street, Philadelphia, are figuring.

Fish Hatchery, Torresdale, Pa. Architect, J. C. M. Shirk, 421 Chestnut street. Owner, State of Pennsylvania, Department of Fisheries, Harrisburg, Pa. Brick, 2½ stories, 30x40 feet, tile roof (heat and light, reserved). Owners received bids April 7th.

Dairy Building, Sixteenth and Courtland streets. Architect, Oliver R. Parry, 1727 Chestnut street. Owners, Stenton Park Dairies, on premises. Brick and concrete, 2 stories, 40x100 feet. Plans in progress.

Residence (2), and Garage, Ridge avenue and Huntingdon street. Architect, private plans. Owners, Mrs. K. Huegle, 2532 West Lehigh avenue. Brick, 1, 2 and 3 stories, 16x61 feet, slag roof, hot-water heating, electric lighting. Owner received bids April 6th.

Residences (9), Lincoln Drive, Germantown. Architect, private plans. Owner, Walter S. Bauer, Hortter and Greene streets. Stone and frame, 2½ stories, 30x42 feet, slate roof, hot-water heating, electric light-

ing, hardwood floors. Plans in progress. Owner will take sub-bids.

Residence and Garage, Oak Lane, Philadelphia, \$16,000. Architects, Neff & Thames, Heed Building. Owner, George B. Pfingst, Oak Lane avenue, Oak Lane. Stone, plastered, 2½ stories, red slate roof, hot-water heating, electric lighting, hardwood floors. Architects taking bids due April 8th. The following are figuring: John Morrow, Ninth street and Oak Lane avenue; Stewart Bros., 2526 North Orkney street; Specht & Sperry, Heed Building; William H. Eddleman, 453 Green Lane; William J. Gruhler, 219 East High street; John N. Gill & Co., Heed Building; Le Roy K. Smith, Forty-first and Chester avenue; William D. Lukens, North Wales, Pa.

Stores (alt. and add.), 2629-31 Kensington avenue. Architect, M. H. Dickinson, Weightman Building. Owner, Harry Rosenthal, on premises. Brick, 3 stories, consists of general interior alterations and addition and new front, electric lighting. Architect taking bids due April 8th. The following are figuring: Loos & Dothard, 1438 South Penn Square; George Hogg, 1634 Sansom street; F. G. Myhlertz, 1723 Filbert street; Harry Gill, Jr., 2515 Germantown avenue; Freund-Seidenbach, Bulletin Building, and Henry P. Schneider, Old York road and Erie avenue.

Factory Buildings (4), Melvale and Clearfield streets. \$50,000. Architects, Edw. A. Devlin, 2443 East Sergeant street. Owner, Electric Dyeing Works, 3942 Frankford avenue. Brick, 1, 2 and 3 stories, 160x340 feet, slag roof, electric lighting, metal sash and frames, metal lath. Plans in progress. Bids in about two weeks.

Residence, Germantown, Phila. Architects, Druckenmiller & Williams, Land Title Building. Owner, name withheld. Stone, 2½ stories, 30x58 feet, wing 20x24 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Stores and Residences (2), Thirteenth street and Germantown avenue. Architect, George S. Idell, 34 South Sixteenth street. Owner, Carolina Weber, 2600 Germantown

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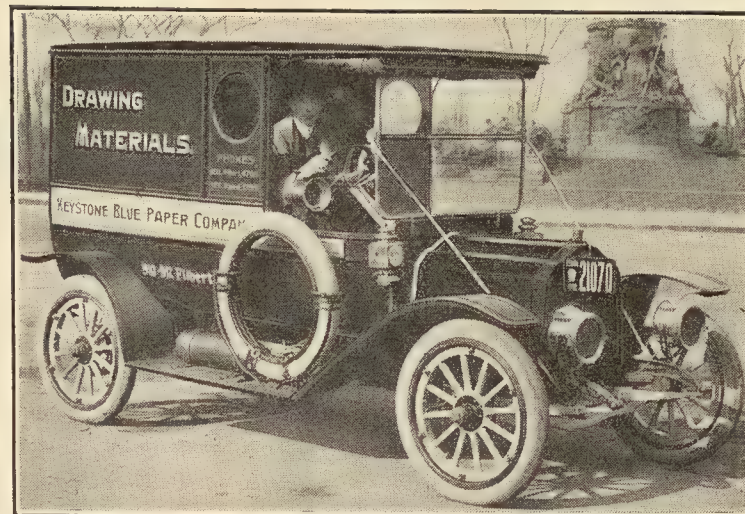
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avenue. Brick, 2 and 3 stories, 36x40 feet, slag roof, hot-water heating, electric lighting. Architect taking bids due April 8th. H. E. Sweeger, 4435 North Uber street; Bur-gard & Weiss, Drexel Building, and George A. Boyd, Twenty-fifth street and Willow Grove avenue, are figuring.

Garage, St. Martin's, Philadelphia. Architects, Thomas & Churchman, 1309 Walnut street. Owner, Samuel S. Logan, Moreland and Tawanda street. Stone, 1½ stories, 23x30 feet, slate and shingle roofs. Plans in progress. Bids in a few days.

Bungalows (14), Allen's lane, German-town. \$8,500 each. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, James Maguire, 1314 Arch street. Stone, 1½ stories, 28x40 feet, slate roof, vapor vacuum heating, electric lighting, hardwood floors. Plans in progress.

Bungalow, Roxborough, Phila. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, name withheld. Stone, 2 stories, 25x40 feet, shingle roof, hot-water heating, electric lighting. Plans in progress.

Residence (alt. and add.), Fifty-eighth street and Ashland avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, W. H. Yorke, 5246 Market street. Stone and frame, 2½ stories, 34x46 feet, shingle roof, hot-water heating, electric lighting. Owner taking sub-bids.

Apartment House, Allen Lane, German-town. \$100,000. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, James Maguire, 1314 Arch street. Brick and terra cotta, 4 stories, 80x144 feet, tile roof, steam heating, electric lighting, hardwood floors, clothes' dryer and laundry equipment. Plans in progress.

Engine Riom, Trenton and Allegheny avenues. Architect, C. W. Denny, Hale Building. Owners, Brehm & Stehle, on premises. Brick, 3 stories, 26x42 feet, slag roof. Architects taking bids, due April 13th. George Hogg, 1634 Sansom street; William R. Dougherty, 1610 Sansom street; Daniel H. Sharp, Heed Building, are figuring.

High School, Germantown avenue and High street, \$800,000. Architect, J. Horace Cook, Land Title Building. Owners, Board of Education, City Hall. Brick and stone, fireproof, 4 stories and basement, 150x200 feet, slate and slag roof (steam heat and electric light-

ing separate bids), salt glazed brick, water-proofing and dampproofing, metal lath, asphalt floors, steel frames and sash, metal doors and trimmings, steel casements. Owners taking bids, due April 9th, 2.30 P. M. H. H. Wehmeyer, 1004 West Lehigh avenue; Mitchell Brothers, Charles McCaul Company, Tenth and Sansom streets; Cramp & Co., Denckla Building; Thomas Reilly, 1616 Thompson street; J. W. Emery, 1524 Sansom street; A. Bottoms & Sons Co., 41 South Fifteenth street; J. E. & A. L. Pennock, Land Title Building; Ketcham & McQuade, 1029 Brown street; James G. Doak & Co., Crozer Building; Irwin & Leighton, 126 North Twelfth street; James Connor, 2848 Frankford avenue, are figuring.

Residences (33), Fifty-fifth and Cedar avenue. Architect, private plane. Owner, F. C. Michaelsen, 211 South Forty-seventh street. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner taking sub-bids.

Store (alt. and add.), 930 Market street. Architects, Stearns & Castor, Stephen Girard Building. Owners, Berg & Berg, on premises. Brick, consists of interior alteration and addition, electric lighting, composition and hardwood floors. Architects taking bids, due April 10th. The following are figuring: George & Borst, 277 South Eleventh street; A. Raymond Raff, 1635 Thompson street; J. N. Gill Company, Heed Building; Ketcham & McQuade, 1029 Brown street; Fidelity Const. Co., Heed Building.

Store and Apartment (alt. and add.), Sixteenth and Columbia avenue. Architect, J. Horace Frank, 1604 Real Estate Trust Building. Owner, William G. Glenn (agent), 1517 Columbia avenue. Brick, 3 stories, 9x25 feet, slag roof, hot water heating, electric lighting. Architect taking bids, due April 10th. Pomeroy Const. Co., 1609 Ranstead street; H. E. Baton, Twelfth and Sansom streets; F. A. Havens Co., 845 North Nineteenth street; A. Raymond Raff, 1635 Thompson street; J. B. Flounders, 1329 Arch street; F. W. Van Loon, Denckla Building; E. E. Hollenback, Fifteenth and Race streets; Graham Camp Co., Heed Building, are figuring.

School (add.), Bridesburg, Philadelphia. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Brick and stone, 3 stories, slag roof (steam

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heat and electric lighting reserved), metal lath, salt glazed brick, waterproofing. Owners taking bids, due April 9th. The following are figuring: H. H. Wehmeyer, 1004 West Lehigh avenue; Mitchell Bros., 2125 Race street; George & Borst, 277 South Eleventh street; J. E. & A. L. Pennock, Land Title Building; James Connor, 2848 Frankford ave-

nue; Ketcham & McQuade, 1029 Brown street; H. E. Baton, Twelfth and Sansom streets; E. C. Durell, 1713 North Twenty-fourth street; J. W. Emery, 1524 Sansom street; P. J. Hurley, 1233 Cherry street; F. Roe Searing, Perry Building; F. W. Van Loon, Denckla Building, William R. Dougherty, 1608 Sansom street.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Loft Building, Thirteenth and Cherry streets. \$175,000. Architects, Sauer & Hahn, 1112 Market street. Owner, W. F. Metzger, 629 Market street. Brick, concrete and terra cotta, 8 stories, 46x21 feet, slag roof, electric lighting, steam heating. Contract awarded to Irwin & Leighton, 126 North Twelfth street.

Garage, Twelfth and Norris streets, \$4,100. Architect, John I. Carmichael, 1520 Fairmount avenue. Owner, I. A. Dionne, 2241 North Broad street. Brick, 1 story, 47x80 feet, slag roof (heating, electric work and gasoline tank and pump, reserved). Contract awarded to G. A. Boyd, Twenty-fifth street and Willow Grove avenue.

Engine House alt. and add.), Twentieth and Hamilton streets. Architect, W. Hunter, Reading Terminal. Owners, Philadelphia & Reading R. R. Co., Twelfth and Market streets. Brick and steel, 1 story, 131x199 feet, composition roof. Contract awarded to George Hogg, 1634 Sansom street.

Library Building, Fifty-second and Media streets. \$12,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, George Institute, Fifty-first street and Lancaster avenue. Brick, 2 stories, 72x72 feet, slag roof, hot-water heating, electric lighting. Contract awarded to J. Wolff, 717 North Fortieth street.

Church, Westmoreland and G streets. \$42,000. Architects, Henon & Boyle, 10 South Eighteenth street. Owners, Church of the Ascension, on premises. Stone, 1 story, 80x160 feet, slag roof, electric lighting, steam heating. Contract awarded for basement to Melody & Keating, Bailey Building.

Garage, Overbrook, Philadelphia. Architects, Baily & Bassett, 421 Chestnut street. Owner, Ernest L. Tustin, Crozer Building. Stone, 1 story, 20x25 feet, tile roof, steam heating, electric lighting. Contract awarded to Milton Young, Overbrook, Pa.

Residence (alt. and add.), Germantown, Philadelphia. \$7,000. Architect, Walter F.

Price, 714 Walnut street. Owner, J. C. Winston, 1006 Arch street. Stone, 1 and 2 stories, slate roof, hot-water heating, electric lighting, hardwood floors. Contract awarded to W. J. Gruhler Co., 219 High street.

Dye House, Clearfield street and Trenton avenue. \$7,500. Architect, private plans. Owner, John Blood Bros., Inc., Allegheny and Trenton avenues. Brick, 1 story, 5x136 feet, slag roof (heat and light, reserved). Contract awarded to Thomas C. Trafford, 1613 Sansom street.

Factory (alt. and add.), Delaware avenue and Tasker street. \$50,000. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, J. T. Bailey & Co., on premises. Brick, steel and concrete, fireproof, 2 and 3 stories, electric light, slag roof, steam heat, fireproof, elevators. Contract awarded to Stacy Reeves & Sons, 2011 Market street.

Garage, 432 Walnut lane. Architect, private plans. Owner, Horace A. Reeves, Jr., 1420 Chestnut street. Stone, 1 story, 23x33 feet, slate roof, hot water heating. Contract awarded to I. A. Dunkelberger, 71 East Herman street.

Bakery (alt. and add.), Twenty-fifth and Lombard streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, New York Pie Baking Company, on premises. Brick, 2 stories, waterproofing. Contract awarded to William R. Dougherty, 1610 Sansom street.

Factory, Tenth and Dauphin streets. Architect, private plans. Owner's name withheld. Brick, 2 stories, 33x85 feet, slag roof, steel sash and frames. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, who is taking sub-bids.

Twin Residence, St. Martins, Philadelphia. Architect, E. B. Gilchrist, Harrison Building. Owner, Dr. George Woodward, North American Building. Brick, 2½ stories, 35x75 feet, shingle roof, hardwood floors (warm air heating and electric lighting reserved). Contract awarded to J. E. Walt, 204 East Willow Grove avenue.

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PENNSYLVANIA Construction News

Residence (alt.), Newtown Square, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Dr. Thomas G. Ashton, Wynnewood, Pa. Stone, 2½ stories, slate roof, wire, lath. Architect received bids April 7th.

Residences and Garage (5), Ogontz, Pa. Architects, Oswald C. Hering and Douglas Fitch, 132 Madison avenue, New York City. Owner, W. E. Hering, 112 North Twelfth street, Philadelphia. Stone, hollow tile and plaster, 2½ stories, shingle roofs, white oak floors (heating, plumbing, electric work, plastering, painting, tile work, owner taking separate bids). Owner taking bids due April 9th. Graham-Campion Co., Heed Building, Philadelphia, are figuring.

Church, Darby, Pa. Architects, Morris & Erskine, Crozer Building Philadelphia. Owner, A. M. E. Church, Darby, Pa. Stone, 1 story, 37x73 feet (steam heating and electric work, reserved). Architects taking bids due April 8th. The following are figuring: H. E. Grau Co., 1707 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; Frank Hall, Seventy-first street and Greenway avenue; R. C. Ballinger & Co., 218 North Thirteenth street, all of Philadelphia, and Worrell & Waters, Rosemont, Pa.

Residence, Latham Park, Pa. \$20,000. Architects, Neff & Thames, Heed Building, Philadelphia. Owner, name withheld. Stone and timber, 2½ stories, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Post Office, Huntingdon, Pa. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone, brick and steel, fireproof, 2 stories, composition roof, steam heating, electric lighting. Owners taking bids due May 11th, at 3 P. M.

Theatre, Stores and Flats, Pottstown, Pa. Architect, E. F. Bertollett, 1614 Cherry street, Philadelphia. Owner, H. D. Saylor, Pottstown, Pa. Brick and terra cotta, 3 stories, asbestos roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Residence and Garage, Wawa, Pa. \$60,000. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Mrs. Florence W. Wood, 2211 St. James Place, Philadelphia. Stone, 3 stories, 50x110 feet, slate roof (heat and light, reserved), oak floors, hollow tile partitions, metal lath. Architects received bids April 6th.

Residence, Jenkintown, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, Dr. A. C. Heritage, Jenkintown, Pa. Stone, 2½ stories, 27x69

feet, slate roof, hot-water heating, electric lighting. Architect taking revised bids due April 8th. E. D. Lever, Abington, Pa., and J. J. Kaufie, Lansdale, Pa., are figuring.

Bank Building, Boyertown, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Boyertown National Bank, Boyertown, Pa. Limestone, 1 story, 40x70 feet, slag roof, steam heating, electric lighting. Plans in progress.

Arsenal Building, Harrisburg, Pa. Architect, private plans. Owner, State of Pennsylvania, care of Samuel R. Rambo, Superintendent of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and terra cotta, 2 stories, 61x214 feet, slag roof, steam heating, electric lighting, concrete floors, metal frames and sash. Owners taking bids due April 14th. The following are figuring: Charles McCaul Co., Tenth and Sansom streets; Bailey-Lush Co., 201 North Broad street; George & Borst, 277 South Eleventh street; E. E. Hollenback, Fifteenth and Race streets; Ketcham & McQuade, 1029 Brown street; F. Roe Saering, Perry Building; Ed. Fay & Sons, 3 South Mole street; Pomeroy Construction Co., 1609 Ranstead street; George Hogg, 1634 Sansom street; Berry-Goodwin Co., Drexel Building; Guernsey O'Meara Co., North American Building; J. E. & A. L. Pennock, Land Title Building; J. W. Emery, 1524 Sansom street, all of Philadelphia; Joseph Brenneman, Lancaster, Pa.; C. W. Strayer, Lemoyne, Pa.; Ellwood City, Pa.; James McKelvey, Harrisburg, Pa., and Fink & Seidel, Reading, Pa.

Apartment House (alt. and add.), West Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. S. Swartz, West Reading, Pa. Brick, 3 stories, 25x77 feet, slag roof, vapor heating, gas and electric lighting, hardwood floors. Architect taking bids. The following are figuring: W. S. Kenney, Temple, Pa.; Adam Spatz, Wernersville, Pa.; C. H. Schlegel, Mt. Penn, Pa.; Haupt & Rentz, Wyomissing, Pa., and John Ibach, J. H. Raudenbush, D. H. Hunter, and Charles Matz, of Reading, Pa. **Residence**, Lansdale, Pa. Architects, Druckenmiller & Williams, Land Title Building. Owner, Ernest Schwehm, 13 Wister street, Germantown, Phila. Plaster, 2½ stories, 35x49 feet, tile roof, warm-air heating, red oak floor, electric lighting, damp-proofing. Architects received bids April 4th.

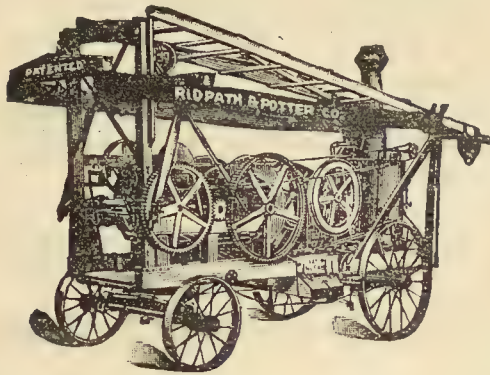
Meeting House (add.), Swarthmore, Pa. Architects, Bunting & Shrigley, 603 Chestnut street. Owners, Swarthmore Meeting House, Swarthmore, Pa. Rough cast, 1 story, 15x35 feet, shingle roof, electric lighting. Architects received bids April 3rd.

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Manufacturing Building, Kennett Square, Pa. Architect, private plans. Owners, American Road Machine Co., Kennett Square, Pa. Brick and steel, 1 story, 100x153 feet, slag roof, electric lighting, steel sash and frame. Owners taking sub-bids on all lines.

Chapel, Easton, Pa. \$100,000. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owner, Lafayette College, Easton, Pa. Brick and stone, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Twin Residence, West Bethlehem, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, F. C. Hausman, Allentown, Pa. Brick and stucco, 2½ stories, 16x40 feet each, slate roof, steam heating, gas and electric lighting. Plans in progress.

Residence (alt. and add.), Easton, Pa. \$10,000. Architect, William Michler, Easton, Pa. Owner, J. I. Kinsey, Easton, Pa. Stone and terra cotta, 2½ stories, 38x45 feet, slate roof, hot-air heating, gas and electric lighting, hardwood floors, metal weather strip. Architect taking bids. The following are figuring: William H. Snyder, Asa Smith & Son, A. A. Bechtel, all of Easton, Pa.

Garage, Cynwyd, Pa. Architect, H. G. McMurtrie, 1012 Walnut street. Owner, Cynwyd Construction Co., Cynwyd, Pa. Stone, 1½ stories, 20x25 feet, shingle roof, electric lighting. Plans in progress. Owners will take sub-bids.

Boat House, Haverford, Pa. Architects, Thomas & Churchman, 1309 Walnut street, Philadelphia. Owner, Howard Longstreth, Haverford avenue. Frame, 2 stories, 19x29 feet, shingle roof. Plans completed. Ready for bids.

Residence, North Wales, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Walter C. Lukens, North Wales, Pa. Hollow tile and plaster, 2½ stories, 30x30 feet, shingle roof, hot-water heating. Plans in progress. Bids in two weeks.

School, Bryn Mawr, Pa., \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick and stone, fireproof, 2 stories, slate roof. Plans in progress.

School, Cynwyd, Pa., \$60,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick and stone, fireproof, 2 stories, slate roof. Plans in progress.

Sanitarium Building, Gladwyn, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Dr. S. D. W. Ludlam, 216 South Fifteenth street, Philadelphia. Stone, 3 stories, 26x36 feet; wing, 2 stories, 15x25 feet, shingle roof, electric lighting, hot water heating, hardwood floors. Plans in progress. Architects will take bids in a few weeks.

Parish House (Basement only), Gulph Mills, Pa. Architects, George Nattress & Sons, Twelfth and Walnut streets, Philadelphia. Owners, Episcopal Church, Gulph Mills, Pa. Stone, 2½ stories, 40x75 feet, tin roof, steam heating, electric lighting. Architects taking bids, due April 14th. The following are figuring: George Hogg, 1634 Sansom street, Philadelphia; Worrell & Waters, Rosemont, Pa., and Specht & Sperry, Heed Building, Philadelphia.

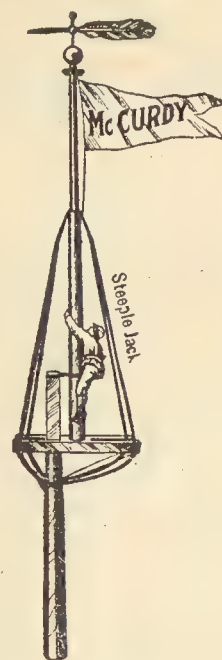
Farm House (add.), Downingtown, Pa. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Howard W. Lewis, Downingtown, Pa. Frame, 2½ stories, 15x28 feet and 18x22 feet, shingle roof. Architect taking revised bids, due April 9th. M. H. Moore and E. C. Lewis, Downingtown, Pa.; D. Sullivan, West Chester, Pa., and George & Borst, 277 South Eleventh street, Philadelphia, are figuring.

Foreman's Cottage, Leslie Run, Lehigh County, Pa. Architect, J. O. Good, Hoboken, N. J. Owners, Central Railroad Company of New Jersey, New York City. Frame, 2½ stories, 28x34 feet, shingle roof, hot air heating. Owners taking bids, due April 20th. F. A. Havens Company, 845 North Nineteenth street, Philadelphia, is figuring.

Art Gallery, Chester, Pa., \$50,000. Architects, Brazer & Robb, 1133 Broadway, New York City. Owner, Estate of Alfred O. Deshong, care of Clarence Deshong, Judge William B. Broomall and James A. G. Campbell, trustees, Chester, Pa. Stone and marble, 1 story, 50x90 feet. Owners taking bids, due April 20th.

Church and Sunday School, Mt. Carmel, Pa., \$40,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Mt. Carmel M. E. Church, Mt. Carmel, Pa. Stone and brick, 1 story, 60x120 feet, slate roof, steam heating, gas and electric lighting, maple floors. Plans in progress.

Twin Residence, Lebanon, Pa., \$80,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Miller & Greiner, Lebanon, Pa. Stone, 2½ stories,



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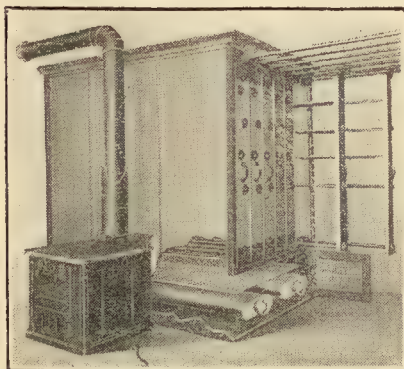
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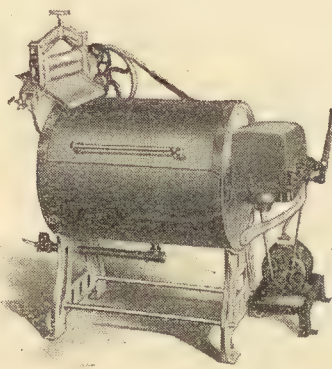
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PENNSYLVANIA

Contracts Awarded

Telephone Exchange (alt.), Reading, Pa. \$1,300. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, Consolidated Telephone Co., Reading, Pa. Lighting fixtures and steel lockers. Contract awarded to George Koch, Reading, Pa.

Residences (3), Reading, Pa. \$4,300. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Mrs. E. N. Reiff, Reading, Pa. Brick, 2½ stories, 13x32 feet each, slate and tin roof, hot-air heating, gas lighting. Contract awarded to Walter S. Kenney, Temple, Pa.

Dormitory Buildings, Morton, Pa. \$6,000. Architects, Street & Stackhouse, Drexel Building. Owners, Dermady Sanatorium, Morton, Pa. Frame, 2½ stories, 45x62 feet, shingle roof, electric lighting. Contract awarded to A. T. Ackerman, Morton, Pa.

Rectory (add.), Bryn Mawr, Pa. \$6,700. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owner, Church of the Redeemer, Bryn Mawr, Pa. Stone, 1 story and basement, 20x25 feet, slate roof, electric lighting. Contract awarded to H. H. Burrell, 1204 Chancellor street, Philadelphia.

Stores, Flats and Warehouses, Pottstown, Pa. Architect, E. F. Bertollett, 1614 Cherry street, Philadelphia. Owner, H. D. Saylor, Pottstown, Pa. Brick and terra cotta, 3 stories, asbestos roof, steam heating, electric lighting, hardwood floors. Contract awarded to William H. Wiand, Pottstown, Pa.

Power House, Norristown, Pa. \$35,000. Architect and Engineer, J. A. Crisfield, care of U. G. I. Co., Broad and Arch streets, Philadelphia. Owner, County Gas and Electric Co., care of U. G. I. Co., Philadelphia. Brick, steel and concrete, 2 stories, 72x99 feet, slag roof, asbestos partitions, steel sash and frames. Contract awarded to Charles Gilpin, Harrison Building, Philadelphia.

Residence (alt. and add.), Berkley, Pa. Architect, Calvin J. Young, 520 Washington

street, Reading, Pa. Owners, the Misses Davis, Berkley, Pa. Stone, 2 stories, 19x21 feet, slate roof, electric lighting, wall board, water supply system. Contract awarded to Walter S. Kenney, Temple, Pa.

Store and Bake House, 1110 North Twelfth street, Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Howard M. High, on premises. Brick and hollow tile, 1 story, 14x48 feet, steam heating, metal sash, gas and electric lighting. Contract awarded to John Ibach, Reading, Pa.

Court House (add.), Allentown, Pa. \$200,000. Architect, R. S. Rathburn, Allentown, Pa. Owner, Lehigh County Commissioners, Court House, Allentown, Pa. Stone, brick and steel, fireproof, 3 stories, 75x100 feet, slag roof, steam heating, electric lighting, oak floors, enameled brick, water-proofing and damp-proofing. Contract awarded to Butz & Clader, Allentown, Pa.

Residence, Ardmore, Pa. \$7,000. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, H. Boyer, Ardmore, Pa. Frame, 2½ stories, 35x45 feet, shingle roof, hot-water heating, electric lighting. Contract awarded to E. O. Lobb, Llanerch, Pa.

Home (add.), Port Kennedy, Pa. \$8,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Society of St. Vincent de Paul, Hale Building, Philadelphia. Frame, 2 stories, 36x75 feet. Contract awarded to John McKenna & Sons, 1038 Race street, Philadelphia.

Residence, Haverford, Pa. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Robert Meade Smith, Jr., 1001 Chestnut street, Philadelphia. Stone and timber, plaster, 2½ stories, shingle roof (electric work and heat reserved). Contract awarded to Joel W. Hutton Company, Harrison Building, Philadelphia.

Frame, 2½ stories, 20x40 feet, shingle roof, hot-air heating, electric lighting. Plans in progress.

Residence, Haddonfield, N. J. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Lawrence Appleton, Haddonfield, N. J. Stone and frame, 2½ stories, 30x70 feet, shingle roof, hot-air heating, electric lighting. Architects taking bids due April 8th. The following are figuring: Loos & Dothard, 1438 South Penn Square, Philadelphia; Thomas M. Seeds, Jr., 1207 Race street, Philadelphia; J. S. Rogers Co., Moorestown, N. J.; G. W. Shaner, Palmyra, N. J.; F. G. Myhlertz, 1737 Filbert street; J. F. Davies, 1208 Chestnut street, Philadelphia.

Church, Trenton, N. J. Architect, R. A. Schumann, Trenton, N. J. Owner, St. Mary's R. C. Church, Trenton, N. J. Stone, fireproof, 1 story, 66x126 feet, slate roof, wire lath (heat and light, reserved). Architect received bids April 6th.

Picture Theatre, Cape May, N. J. Architect, Oliver R. Parry, 1727 Chestnut street, Philadelphia. Owners, Bullit & Edwards, 235 South Twenty-second street, Philadelphia. Frame, 1 story, 30x80 feet, slag roof, electric lighting. Plans in progress.

School Building, Vineland, N. J. \$60,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owner, Board of Education, care Edgar R. Jones, Decker Block, Vineland, N. J. Brick, 2 stories, slate roof, mechanical heating and ventilating system, electric lighting. Plans in progress.

School, Pole Tavern, N. J. \$14,000. Architects, Moffet & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education of Upper Pittsgrove Township. Brick, 2 stories, 40x62 feet, slag roof, heating not decided, electric lighting, maple floors. Plans in progress.

Bungalow, Margate City, N. J. \$2,000. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, Thomas Doyle, care of Keystone Leather Co., Camden, N. J. Frame, 1½ stories, 26x34 feet, shingle roof, gas and electric lighting. Plans in progress.

School, Medford, N. J. \$45,000. Architect, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, care E. J. Garwood, Secretary, Medford, N. J. Stone, 2½ stories, slate roof, steam heating, electric lighting. Plans about completed. Bids will soon be taken.

Bank Building, Swedesboro, N. J. Architects, Moffet & Stewart, Jessup Building, Camden, N. J. Owners, Swedesboro Trust Co., Swedesboro, N. J. Stone, 2 stories, 43x40 feet, slag roof, steam heating, electric lighting, tile floors. Plans about completed. Bids will soon be taken.

Water System, Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Camden County Tuberculosis Sanitarium, care F. W. George, Court House, Camden, N. J. Reinforced concrete, 1 story, 16x18 feet, gas engine, electric lighting. Owners taking bids due April 8th. The following are figuring: Charles S. Wilmint, Haddon Heights, N. J.; Condon & Patten, Haddon Heights, N. J.; H. C. Worrell, Riverton, N. J., and R. K. Lippincott, Stratford, N. J.

Residence, Mt. Holly, N. J. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, James Logan, Mt. Holly, N. J. Stone and frame, 2½ stories, 26x30 feet, shingle roof, steam heating, electric lighting. Plans in progress.

Residence, Ocean City, N. J. Architect, J. Kluges, 1012 Walnut street, Philadelphia. Owner, Martin Maloney, Ocean City, N. J. Frame, 2 stories. Plans in progress.

Residence, Riverton, N. J. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, W. A. Hendrickson, Riverton, N. J. Stone and frame, 2½ stories, 28x50 feet, slate roof, hot-water heating, electric lighting. Plans in progress.

Warehouse, Atlantic City, N. J., \$30,000. Architect, Lewis Barber, Bartlett Building, Atlantic City. Owner, E. J. Holland, Atlantic City. Concrete and steel, 3 stories, 90x100 feet, slag roof, electric lighting, metal frames and sash, metal partitions, vault doors, electric elevator, sprinkler system. Plans in progress. Architect will take bids in 10 days.

Garage, 1503 Pacific avenue, Atlantic City, N. J., \$3,500. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Brick and steel, 1 story, 40x60 feet, slag roof, hot water heating, electric lighting, steel sash. Architect taking bids, due April 14th.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

MORE OR LESS PERSONAL.

Edmund B. Gilchrist announces the removal of his architectural offices to 1424 Walnut street.

NEW JERSEY

Construction News

School, Roebling, N. J. \$75,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Board of Education of Florence Township. Brick, stone trimmings, 2½ stories, 176x70 feet, slag roof, steam heating, electric lighting. Plans in progress. Owners will take bids in about 10 days.

Dock, Lamberton street, Trenton, N. J. \$5,000. Engineer, Albert C. Gregory, City Hall, Trenton, N. J. Owner, City of Trenton, N. J. Timber, 98x50 feet. Plans completed. Owners will take bids in about two weeks.

Street Paving, Trenton, N. J. \$100,000. Engineer, A. Swan, City Hall, Trenton, N. J. Owner, City of Trenton. Brick, asphalt and bitulithic. Plans completed. Owners will take bids in 10 days.

School (add. and alt.), Maple Shade, N. J. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Chester Township Board of Education. Brick, 2 stories, 49x79 feet, asbestos shingle roof, electric lighting, metal lath, damp-proofing (heating, reserved). Owners received bids April 6th.

Residence, Merchantville, N. J. \$6,500. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, name withheld.

NEW JERSEY

Contracts Awarded

Residence (alt. and add.), Moorestown, N. J. \$3,200. Architect, H. A. Macomb, 214 South Seventh street. Owner, E. W. Maule, Moorestown, N. J. Stone and frame, 2½ stories, slate roof (heat, reserved), electric lighting, hardwood floors. Contract awarded to Stewart L. Maines, Moorestown, N. J.

Fire House, Trenton, N. J. \$14,000. Architect, W. P. Endebrook, American Mechanics Building, Trenton, N. J. Owner, City of Trenton, care of George LaBarre, City Hall, Trenton. Brick and stone, 2 stories, slag and slate roof, steam heating, electric lighting, rolling doors. Contract awarded to Lewis Levy & Son, Trenton, N. J.

Factory, Bloomsbury, N. J. \$20,000. Archi-

tect, Jacoby & Weishample, Commonwealth Building Allentown, Pa. Owner, John H. Meyer, Fourth avenue and Seventeenth street, New York City. Brick and concrete, 1 and 2 stories, 40x80 feet and 80x177 feet, engine roof, 42x60 feet, asbestos or slag roof, steam heating, electric lighting, concrete floors. Contract awarded to J. A. Nagle, 117 South Twelfth street, Allentown, Pa.

Residence, Wenonah, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Harry S. Parris, Wenonah, N. J. Frame and plaster, 2½ stories, shingle roof, hot-water heating, electric lighting. Contract awarded to John L. Drummer, Wenonah, N. J.

avenue. Cost, \$12,000. Store and dwelling, brick, 3 stories, 20x62 feet, Sixteenth and Venango streets. Cost, \$30,000. Five dwellings. Cost, \$14,000. One dwelling.

F. L. Davis (O), Thirteenth street and Nedro avenue. Cost, \$8,000. Two dwellings, brick, 3 stories, 12x35 feet, Park avenue and Medary street.

John Loughran (O), 2238 North Broad street. Cost, \$10,500. Five dwellings, brick, 2 stories, Fairhill and Rockland streets. Cost, \$23,000. Eleven dwellings. Cost, \$18,00. Nine dwellings. Cost, \$4,500. Cost, \$19,900, nine dwellings.

M. J. Lazaroff (O), 1418 South Sixth street. Cost, \$4,500. Warehouse, brick, 3 stories, 16x96 feet, 124 Spruce street.

I. D. Mullen (O), 167 Queen street. H. P. Schneider (O), 3713 York road. Cost, \$900. Store, brick, 1 story, 16x29 feet, 167 Queen lane.

M. H. Hepperschall (O), Bala, Pa. G. R. Osborn (C), 5017 Willow avenue. Cost, \$2,950. Dwelling, stone, 2 stories, 14x30 feet, 3911 Hawthorne street.

Westmoreland Dye Works (O), Westmoreland and Jasper streets. W. McLaughlin Bros. (C), 521 St. James st. Cost, \$6,000. Dye works, brick, 1 story, 35x65 feet, Westmoreland and Jasper streets.

E. Johnston (O), Nineteenth street and Snyder avenue. Cost, \$5,000. Two dwellings. Brick, 2 stories, 16x26 feet, Nineteenth street and Snyder avenue.

W. P. Barba (O), Midvale Steel Co., School Lane Land Co. (C), Green lane. Cost, \$14,000. Dwelling, stone, 3 stories, 18x42 feet, Coulter and Fox streets.

R. D. Wilson (O), 133 South Twelfth street. Cost, \$1,600. One dwelling, brick, 2 stories, 16x42 feet. Cost, \$3,200. Two dwellings. Cost, \$4,800. Three dwellings. Cost, \$42,000. Twenty-eight dwelling, Salford street and Kingsessing avenue.

W. Klaus (O), 1262 South Fiftieth street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x52 feet, Fifty-eighth and Ashland streets.

H. H. Downsborough (O), 3342 North Sixteenth street. Cost, \$49,300. Seventeen dwellings, brick, 2 stories, 12x26 feet. Cost, \$16,000. Five dwellings. Cost, \$4,000. One dwelling, Cobb's Creek.

H. G. Fetteroff & Co. (O), Wayne Junction. William Steele & Sons Co. (C), Sixteenth and Arch streets. Cost, \$120,000. Manufacturing building, brick, 3 stories, 49x130 feet, Stenton avenue and Loudon street.

Thomas M. Seeds, Jr., 1207 Race street. Cost, \$100,000. Apartment house, brick, 4 stories, 42x92 feet, Thirty-sixth and Chestnut streets.

Ed. S. Radley (O), 5123 North Fifteenth street. Cost, \$0,400. Eighteen dwellings, brick, stories, 15x35 feet, Sydenham and Ruscomb streets. Cost, \$50,400. Eighteen dwellings.

Wissinoming Real Estate Co. (O), Torresdale, Pa. M. E. Rodgers (C), 7732 Cottage street. Cost, \$9,200. Four dwellings, 2 stories, 16x37 feet, Benner and Gillespie streets.

H. B. Bourse (O), 665 North Fifteenth street. Cost, \$10,000. Two dwellings, brick, 2 stories, 16x39 feet. Cost, \$2,500. One dwelling, Rising Sun lane.

E. Johnston (O), Nineteenth street and Snyder avenue. Cost, \$3,500. Store and dwelling, brick, 2 stories, 17x52 feet.

C. J. Day (O), 223 South Fifty-second street. Cost, \$25,800. Twelve dwellings, brick, 2 stories, 16x31 feet. Cost, \$62,300. Twenty-nine dwellings, Cora street and Ogontz acenue.

White Bros. Co. (O), Headley & Castor streets. Cost, \$3,500. Foundry, brick, 1 story, 80x132 feet, Headley and Caster streets.

J. Ogradowski (O), 3316 A street. Joseph Ashby (C), Fox Chase, Pa. Cost, \$3,250. One

Miscellaneous Construction News

Store and Factory, Baltimore and Frederick streets, Baltimore, Md. Architect, Louis Levi, eRal Estate Trust Building, Philadelphia. Owner, I. Harris, Baltimore and Howard streets, Baltimore, Md. Brick, stone trimmings, 4 stories, slag roof, low pressure, steam heating, electric lighting. Plans in progress. Architect will take bids in two weeks.

Store Fronts, 549 to 557 North Gay street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, I. Benesch & Sons, on premises. Copper and mahogany. Plans in progress. Architect will take bids in two days.

Service Building, Indianapolis, Ind. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Co., Detroit, iMich. Brick, steel and terra cotta, 5 stories, 142x317 feet, slag roof (heat and light, reserved), damp-proofing, kalamein work (doors and trimmings, steel), iron windows and frames, metal lath. Architect taking bids due April 9th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence, Bromwell, W. Va. Architects, De Armond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, Mrs. K. R. Hewitt, Bromwell, W. Va. Stone, 2½ stories, 65x70 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood floors. Plans in progress.

School and Residence, Harlem, N. Y. Architect, Ballinger & Perrott, 1211 Arch street, Philadelphia. Owners, Sisters of the

Blessed Sacrament of Pennsylvania. Brick, concrete and terra cotta, 3 stories, 75x100 feet. Contract awarded to Amsterdam Building Co., 43 West Twenty-seventh street, New York City.

Service Building, Montreal Canada, \$200,000. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Car Co., Detroit, Mich. Brick and concrete, 5 stories, 100x200 feet, tile roof (heat and light, reserved), cork floors, steel sash and frames, steel rolling doors, water-proofing. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Saloon and Apartments (alt. and add.), Ninth and DuPont streets, Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John Mullarkey, on premises. Brick, 3 stories, 22x80 feet, tin roof, hot water heating, gas and electric lighting, hardwood, tile and marble floors. Architect taking bids. The following are figuring: A. S. Reed & Bro. Co., 815 Shipley street; W. D. Haddock & Co., 804 Orange street; J. E. Healy & Son, 707 Tatnall street; John P. Reardon, 807 Shipley street, all of Wilmington, Del.

Residence, Wilmington, Del. Architect, private plans. Owner, Fred Megraw, Wilmington, Del. Stone, 2½ stories, 40x40 feet, shingle roof, hot water heating, electric lighting. Owner taking bids, due April 13th. F. A. Havens Company, 845 North Nineteenth street, Philadelphia, are figuring.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

M. Sack, 325 North Fifteenth street. A. Shestack (C), 528 Reed street. Cost, \$2,000. Shop, brick, 3 stories, 14x60 feet, 332 North Fifteenth street.

A. Meckey Co. (O), Allegheny avenue and Seventeenth street. A. R. Raff (C), 1635 Thimpson street. Cost, \$26,000. Manufacturing building, brick, 3 stories, 98x110 feet.

S. C. Blair (O), 7362 Ridge avenue. Cost, \$1,000. Ten dwellings, brick, 2 stories,

Ninth and Merkle streets. Cost, \$1,800. One dwelling.

B. Shoemaker (O), 205 North Fourth street. William R. Dougherty (C), 1610 Sansom street. Cost, \$13,000. Warehouse, brick, stories, 20x70 feet, 329 Race street.

Mrs. G. Fisher (O), 1616 Franklin street. Cost, \$1,100. Dwelling, brick, 2 stories, 16x26 feet, 1617 Perch street.

Davidson & Silberman (O), 808 Synder

dwellings, 3 stories, 18x32 feet, Bobeck and Falmore streets.

Felix Cantona (O), 1908 Rowa nstreet. C. L. Hemmerly (C), Oak Lane. Cost, \$500. Garage, brick, 27x50 feet, 1720 Cayuga street. Cost, \$3,200. Two dwellings.

N. Raidman (C), 5944 Walnut street. Cost, \$9,000. Two dwellings, brick, stories, 16x37 feet, Fifty-fourth and Larchwood streets. Cost, \$13,500. Three dwellings. Cost, \$21,000. Six dwellings. Cost, \$28,000. Eight dwellings. Cost, \$30,000. Eight dwellings. Cost, \$35,000; Ten dwellings. Cost, \$21,000. Six dwellings.

C. E. Johnson & Co. (O), 09 South Tenth street. Cost, \$1,800. Stable, brick, 2 stories, 54x36 feet, Greenville and Swanson streets.

Max Katzman (O), 500 Walnut street. G. J. Reich (C), 1112 Loudon street. Cost, \$4,000. Store and dwelling, brick, 3 stories, 16x36 feet, Broad street and Windrim avenue. Cost, \$12,000. Three dwellings. Cost, \$28,000. Seven dwellings.

George Institute (O), Fifty-second street and Media avenue. J. F. Wolff (C), 717 North Fortieth street. Cost, \$10,000. Library, brick, 2 stories, 54x74 feet, Fifty-second street and Media avenue.

H. Snyder (O), 6600 Keystone street. Cost, \$4,200. Two dwellings, brick, 2 stories, 16x40 feet, Levick and Hegerman streets.

George Wyel (O), Rising Sun lane and Unruh street. Cost, \$3,600. Two dwellings, brick, 2 stories, 20x27 feet, Cheltenham avenue and Second street pike.

F. B. J. Branagan (O), 537 West Erie avenue. Cost, \$37,800. Twenty-one dwellings, brick, 2 stories, 15x22 feet. Cost, \$2,100. Store and dwelling, Luzerne and Darien streets.

G. R. Dewees (O), Willow Grove, Pa. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x42 feet, 5624-26 North Third street.

C. West & Co. (O), 1034 Herbert street. Cost, \$7,000. Two dwellings, brick, 16x48 feet, 1203-05 Allengrove street.

C. Gercke (O), 7101 Torresdale avenue. Cost, \$36,000. Two dwellings, brick, 2 stories, 15x46 feet. Cost, \$11,700. Nine dwellings, 3523 and 43 Princeton street.

John Stone (O), Stone House lane. George Harbison (C), Stone House lane. Cost, \$1,000. Dwelling, frame, 2 stories, 15x42 feet, Stone House lane and B. & O. R. R.

W. Fischer (O), 3621 North Fifth street. Cost, \$11,900. Seven dwellings, brick, 2 stories, 15x29 feet, Eighth and Bristol streets. Cost, \$2,400. One store.

Bell Telephone Co. (O), Thirteenth and Arch streets. Office Building, brick, 15 stories, 86x157 feet, Seventeenth and Arch streets. Cost, \$1,250,000.

Alterations and Additions

A. Peterson (O), 5924 Woodbine avenue. Milton W. Young (C), Overbrook, Pa. Cost, \$1,500. Dwellings, 5924 Woodbine avenue.

J. H. L. Gross (O), 639 North Thirty-ninth street. Cost, \$1,000. Garage, 635 North Thirtieth street.

F. W. Woolworth & Co., New York City. C. M. Wilson (C), Wilkes-Barre, Pa. Cost, \$2,000. Store, 1020 Market street.

T. W. Cramp (O), 1720 Locust street. S. J. Cresswell Iron Works (C), Twenty-third and Cherry streets. Cost, \$1,300. Residence, 1418 Walnut street.

J. C. Winston (O), 5441 Wayne avenue. W. J. Gruhler (C), 219 High street. Cost, \$7,000. Dwelling, 5441 Wayne avenue.

Kirk & Nice (O), Washington lane and Baynton street. J. H. Walters (C), 168 East Walnut lane. Cost, \$1,200. Stable, Washington lane and Baynton street.

F. A. North & Co. (O), Chestnut street. Stuckert & Sloan (C), Crozer Building. Cost, \$4,000. Shop, 1529 Parrish street.

E. H. Varfe (O), Betz Building. H. D. Prettyman (C), Land Title Building. Cost, \$5,000. Stable, 1134 Race street.

W. Biggins (O), Lawndale, Pa. Cost, \$1,200. Dwelling, Lawndale, Pa.

Star & Crescent Mills (O), Hancock street and Lehigh avenue. H. Brocklehurst (C), 512 West Norris street. Cost, \$9,000. Factory, Hancock street and Lehigh avenue.

W. H. Yorke (O), Fifty-eighth street and Ashland avenue. D. Pennock (C), 221 Webster street. Cost, \$2,000. Dwelling, Fifty-eighth street and Ashland avenue.

B. C. Freedman (O), 624 South Seventh street. Cost, \$1,800. Slaughter House, 706 Kater street.

J. Geoghegan (O), 711 East Cheltenham avenue. W. J. Cowell (C), 943 East Cheltenham avenue. Cost, \$1,000. Saloon, 13 East Cheltenham avenue.

Mrs. M. L. Nathans (O), Jenkintown, Pa. A. S. Brown (C), 1901 Clearfield street. Cost, \$5,205. Store and dwelling, 2639 Kensington avenue.

S. L. Craig (O), 508 Queen Lane. Cost, \$4,000. Dwelling, 508 Queen Lane.

J. D. Groves & Sons (O), Somerset and Tulip streets. J. F. Welsh (C), 2742 North

Twenty-second street. Cost, \$4,000. Storage, Somerset and Tulip streets.

M. Ripkin (O), Seventeenth and Titan streets. H. F. Dillon (C), 1223 South Twentieth street. Cost, \$1,550. Store and dwelling, Seventeenth and Titan streets.

D. F. Deal (O), 5401 Haverford avenue. J. D. Fisher (C), 718 Market street. Cost, \$3,300. Garages, 421 South Fifty-fourth street.

Harry Woodman (O), 14 North Fifty-eighth street. Eli Karasack (C), 640 Wolf street. Cost, \$1,000. Dwelling, 635 South Sixtieth street.

W. F. Schoeninger (O), 44 North Paxon street. H. Lanagan (C), 2347 East Clearfield street. Cost, \$1,000. Store and dwelling, 136 South Sixtieth street.

Tunick Co. (O), 720 South Eleventh street. M. Agin (C), 60 Porter street. Cost, \$1,150. Manufacturing, 720 South Eleventh street.

S. Molinau (O), 920 South Seventh street. Donato & Buro (C), 809 South Eighth street. Cost, \$1,660. Saloon and dwelling, Eighth and Sears streets.

O. Malther (O), 7006 North Twelfth street. H. R. Rust (C), 724 Ludlow street. Cost, \$1,500. 7006 North Twelfth street.

S. Simpson (O), 727 Walnut street. J. H. Smith (C), 1023 Tasker street. Cost, \$1,500. Store and Dwelling, Fourth and Gaskill streets.

Mrs. Spooner (O), 4612 Cedar avenue. Mockett Construction Co. (C), Sixth and Market streets, Camden. Cost, \$1,400. Dwelling, 106 South Thirty-eighth street.

E. Morley (O), 2128 Green street. J. H. Rea (C), 1019 Appletree street. Cost, \$795. Dwelling, 2128 Green street.

P. Pardamone (O), 405 North Sixty-fourth street. Cost, \$3,000. Hall, 405 North Sixty-fourth street.

J. Dionne (O), 2241 North Broad street. G. A. Boyd (C), 1822 Erie avenue. Cost, \$4,100. Garage, brick, 1 story, 44x88 feet, Twelfth and Norris streets.

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

Miscellaneous Contracts Awarded

Apartment House (alt. and add.), Ninth and Tatnall streets, Wilmington, Del.; \$30,000. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, Frank S. Dure, 811 Market street, Wilmington. Brick, 4 stories, steam heating, electric lighting. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Restaurant (alt. and add.), 825 Market street, Wilmington, Del. Architect, E. L. Rice, Jr. Co., 815 Market street, Wilmington, Del. Owner, Victor H. Bacon, 817 Market street, Wilmington. Stone and brick, 13 stories, Carey roof, hot water heating, gas and electric lighting, hardwood floors. Contract awarded to A. S. Reed & Bro. Co., 815 Shipley street, Wilmington, Del.

Manufacturing Plant (add.), Wilmington, Del. Architect, private plans. Owners, Harlan & Hollingsworth Co., Wilmington, Del. Hollow tile, fireproof, 1 story, 130x400 feet, consists of office building, shop, furnace house and storage, cement tile roof, metal lath, steel sash and frame. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia, who is taking sub-bids.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

When the game is advertising, specializing pays. You couldn't advertise hats in a brick magazine any more than you would advertise corsets in a tobacco trade journal. Selecting your medium depends on the class you aim to reach. If the class is architects or builders, your medium is "The Guide."

The One That Gets the Trade.

The constant dropping water wears away the hardest stone,
The constant chewing bulldog masticates the toughest bone,
The constant cooing lover takes away the blushing maid,
And the constant advertiser is the one that takes the trade.

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—Ex.

INSIDE FACTS ABOUT STUCCO

Its Value as an Architectural Medium When Properly Applied. Why a Lean Mortar Should Be Used. Necessity for Water-proofing. Protecting Green Stucco.

By RALPH L. SHAINWALD, Jr., A. M.



The ease with which stucco lends itself to artistic treatment, has tended toward a precocious development that has been harmful. The trouble is that a stucco job which at first appears to be an artistic gem, gradually develops flaws which may finally overshadow the original beauty.

What is the cause of the "checking" and "hair-cracking?" Is it superficial, or is it hidden in the physio-chemical composition of cement? Much valuable study has been devoted to the external treatment of stucco, but few have stopped to question its internal composition. Let us, therefore, study some inside facts of stucco mortar.

The subject is an interesting one and the conclusion startling. Who would have thought for instance, that cement acts like wood; swelling up on wetting and contracting on drying? But this is proven by careful measurements.

A. T. Goldbeck, of the United States Department of Agriculture, showed this in experiments described in the "Engineering Record" of July 8th, 1911 (page 45). His researches were confirmed by Prof. A. H. White, working independently in the Univer-

sity of Michigan and published in the "Engineering Record" for July 1th, 1911 (page 73). Both of these gentlemen proved scientifically and conclusively that mortar and concrete expand on wetting and contract on drying, the action keeping up for years.

Wetting Causes Big Expansion.

In some cases the amount of expansion (due to wetting) was as great as that due to 100 degrees increase of temperature. This is a startling fact, when it is remembered that concrete expands with heat just as much as iron does. The strains due to wetting and drying are therefore very severe and come quickly and repeatedly. It is not difficult to see why this should be such a serious source of cracking.

It is fortunate that only the cement is affected, the sand remaining practically uninfluenced by moisture. Therefore lean mortars are much less affected than rich ones: a 1:3 stucco when moistened expands much less than a 1:2. But as Professor White says "If a stucco is lean enough to avoid cracks water will go through it freely, and if it is rich enough to keep out water it will crack."

In Italy, where stuccos have been used for centuries, masonry walls were thick and waterproof in themselves. Cement was made from pulverized natural rock, and lean stucco mixtures were a matter of economy. The passage of ages has developed comparatively little checking in the Italian stuccos. But to-day, in America, Portland cement is cheap, walls are thin, and climate severe so that rich mixtures have been used in the attempt to get cheap water-proofing. The result is excessive hair-cracking.

Why a Lean 1:3 Mortar Should be Used.

It is, of course, true that a 1:2 stucco is more waterproof than a 1:3, but it is very

much more liable to crack. On the other hand, a 1:3 stucco properly applied is safe from cracking, though very porous. This, then, is the dilemma which confronts the constructor; how to make stucco lean enough to avoid cracks, yet non-porous enough to keep out water. The problem has been solved by the use of a 1:3 mortar in conjunction with an effective waterproofing compound.

The leanness of the mortar prevents cracks, and the compound makes the mortar waterproof. This gives absolutely reliable results both as to permanency of surface and permanency of waterproofing, and is in every way more satisfactory than asbestos or patented stuccos which do not positively prevent checking and never entirely water-proof.

An Architect Learns a Lesson.

Practical experience has corroborated the laboratory in showing the need for lean mixtures, but as is frequently the case, we did not see the everyday facts in clear light until science opened our eyes. For instance, it has long been known that excessive troweling of a floor, etc., should be avoided. Now we understand that the troweling worked the particles of cement to the surface, making a rich mixture which cracked for the reasons above mentioned.

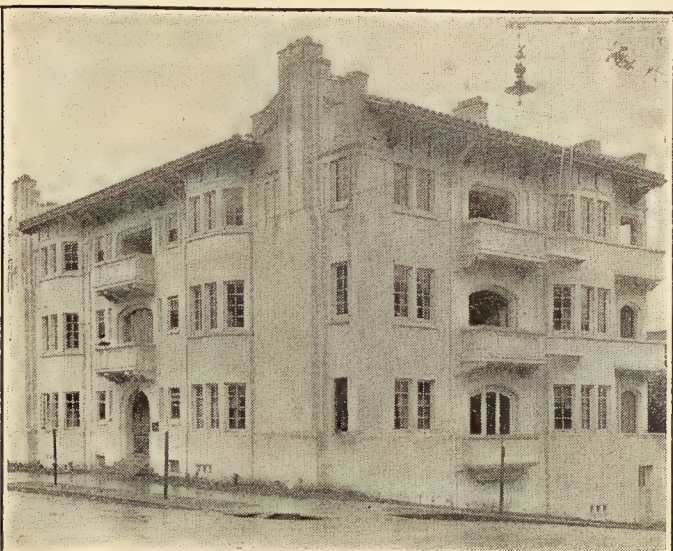
Some years ago an architect was building a stucco home for himself. The contractor ran short of cement and asked permission to use a leaner mixture. This was permitted for the back of the house, where it wouldn't be noticed, but the rich mortar was insisted on for the rest. To the surprise of every one, the back wall is still flawless, while the front of the house is full of hair-cracks.



The Necessity of Good Water-proofing.

It must be emphasized that with a lean mortar, the permanency of the waterproofing compound is a very important point, as the stucco is exposed to beating storms. That class of compound using stearates, oleates, resinates or other soapy material as a base, gradually washes out under prolonged action of water which slowly but surely dissolves even stearate of lime. A permanently water-proof stucco is dependent on using a compound that is absolutely insoluble and un-

(Continued on page 229.)



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Editorial Comment

The man who reasons that because the first quarter of 1914 shows a decrease in expenditures for new construction of more than \$850,000,—as compared with the same period of 1913—therefore things are going generally to the demnition bow-wows, is a pessimist. If he'd just "scatter his collected senses" long enough to ponder the fact that March developed more real winter than all of the preceding winter months combined, that snow covered the ground almost uninterruptedly during the greater part of March, and that the starting of new work was practically impossible during the whole of that blustery month, he will be able to perceive why the official figures register a considerable falling off. There is no serious economic reason for the decrease, as the figures for the first half year, when they come to be made up, will abundantly testify. Any deficiencies due to March's unusual wintriness will be more than made up during the next three months. "The Guide" is quite willing to stake its reputation as a prophet on the prediction that the totals for 1914 will exceed those of 1913 by a good, wide margin, croakers, forecasters of gloom and congenital pessimists to the contrary notwithstanding.

* * *

The story is noised about that the Treasury Department at Washington is preparing to renew its campaign for a "standard" type of public building. For the benefit of those who do not know what the Treasury Department means by a "standard" type, we are moved to explain that it is a building fashioned somewhat on the order of Mr. Edison's poured concrete "home for the wage-earner"—that is it is a single design for general duplication, so that the post office in Baltimore, the custom house in Kankakee and the arsenal at Hoboken will—if the Treasury Department has its way—be just so many replicas of the one design having such minor variations as to size and interior equipment as may be made necessary by local exigencies. One of the reasons advanced for the Treasury Department's advocacy of this inartistic, ill-advised and retrogressive policy is the circumstance that the Supervising Architect's office, at Washington, is "six years behind in its work." To bring this muddled and sadly involved plan factory within peering distance of daylight it is proposed to put the designing of federal buildings on a level with the making of Grand Rapids furniture by machinery, viz., to grind them out after a common design and without reference to their local setting, their influence upon the development of popular taste, their representative character as symbols of the power and dignity of the flag or any lesser consideration, patriotic, ethical, aesthetic or economic. If this hideous scheme is permitted to go through we may expect to see a collection of public buildings resem-

bling the "monuments" in the average cemetery—a collection of atrocities duplicated to the verge of national madness. How much saner, wiser and vastly more creditable to the department was the former system established under the Tarsney Act, which enabled the government to avail itself in the designing of federal buildings of the services of those architects best qualified to do successfully the work in hand. What Congress should do is to re-enact some such measure as the Tarsney Act without delay, utilizing the Supervising Architects' office solely for such detail, clerical and supervisory duties as might be necessary. A recent press report gives this delightful picture of the attitude of the department in the matter of this question of stereotyped design:

"Treasury officials have been at work for several months on a preliminary report to the Public Building Committee created by Congress to work out and improve some system by which a standard could be formed for public buildings, so that cities of a certain size should get a prescribed size of buildings. By its adoption, it was argued, the necessity of drawing plans for every new building would be eliminated, the expense of the upkeep of the Supervising Architect's office would be lessened and the actual time consumed between the authorization of a building and its completion would be greatly diminished."

Should it occasion wonder that intelligent foreigners laugh derisively at our American pretensions to a national taste when it comes to a question of any of the fine arts?

* * *

Mr. C. Matlack Price, who writes of architectural matters with a measure of artistic insight and scholarly appreciation lacking in most of the comment touching subjects of the kind, has a brilliantly written article in the March number of "Art and Decoration," on "The Element of the Unusual in American Architecture." The article is so cleverly conceived and admirably handled that we should like to quote it in full. Lack of space preventing, we cannot avoid reprinting the following paragraphs.

"The study of American architecture is, for the most part, a study of derivations, and the ability of the architect is generally to be reckoned in terms of scholarship rather than of invention. In other words, his achievements have been worthy in proportion to their likeness to foreign originals rather than in proportion to their difference. Departing from historic precedent, architectural attempts in this country have usually degenerated into a random riot of unpleasing originalia. It was not recognized that there are manners in architectural expression just as there are manners in social usage, and that without perfect surety and poise, devia-

tions from the set rules of older countries are in the nature of dangerous experiments. Only the master grammarian can afford to be idiomatic without being or appearing, illiterate, and only the thoroughbred can be informal without danger of being a boor or a vulgarian.

From these generalities there begin to shape themselves certain potent reasons for the mediocrity of American architecture. Before going further it is necessary to emphasize the fact that no adverse criticism of our architectural mediocrity is fair unless directed against the public as well as the architect. Of course the great architect, like the great writer or great painter, will rise superior to his public, beating down its hampering restrictions, but the mediocre architect will give his public mediocre architecture, and both will be satisfied.

The principal cause of the growth of an architecture of only average merit has been the cause underlying all averages—it is easiest and “safest.” If a building is no better or no worse than its neighbor it will escape criticism. Even if architects, as a class, have attempted flights in the conception of architecture as a fine art, their clients have clipped their wings and brought them to earth. Up to the last few years of architectural development in this country, it is perfectly plain to be seen that other things more engrossing than architectural refinements concerned the people—such matters as the building up of great business ventures, and the establishment of new political and social institutions. Politically speaking, democracy rarely encourages the fine arts, which have thrived most luxuriantly under royal patronage. In a country with “free-for-all” opportunities, and in a country comparatively new, the scramble for existence and for the establishment of material advancement has a tendency to retard, and sometimes actually to discourage the development of the fine arts.

* * *

So it has chanced that most architecture which is not distinctly outrageous has carelessly come to be accepted as good, and being thoughtlessly pleased with that which is not actually offensive, we have accepted, and thus encouraged, an “average” architecture. Of course other causes have been contributory, such as the early lack of knowledge on the part of architects and public alike, and the ill-taken stand that our Declaration of Independence from Old-World political institutions divorced us also from Old-World traditions in the fine arts. From these traditions we cannot afford to secede until we have evolved something as good, if not better, and an appreciation of this by architects and public is the only circumstance which saved us from absolute architectural anarchy after the chaos of the dark ages following the decline of the Classic Revival.

Perhaps the case has now been made out black enough for American architecture. Certainly the accusation that it is “average” is a grievous one, for “average” can very readily be taken as a synonym for

“stupid.” It will suffice if the observer will now look about him with a keener eye and more discriminating mind, if he will now have premises which will not cause him to be satisfied just because he is not actually displeased, and, recognizing a neutral, will not consider everything as positive that is not distinctly negative.

Having acquired this important critical slant at contemporary architecture, and seeing now the worthy instead of thoughtlessly accepting the average, we will find ourselves consciously or unconsciously seeking to discover what qualities enable an architect to rise above the average.

* * *

Studying examples by various able American architects, an interesting discovery will be made. Of course, there is pre-eminently that quality, as elusive as it is potent, which has been called genius, or talent—the gift of the artist which makes him different from his fellows. This quality is essential in all arts, but in architecture there is another.

Plainly stated, it is ingenuity,” added to all his other qualifications, which will turn the tide toward a significant total of architectural achievement, and up and away from the deadly average. Architecture is an art more beset with definite problems than any of the others, problems which genius, scholarship, practice or any qualification other than ingenuity will fail to solve. Let us assume, in a given instance, that art has gone as far as it can, and a problem of construction confronts the architect. The dreamer, the visionary, the maker of pictures is non-plussed unless he possess also the gift of ingenuity. Here may be conceived the complex endowment which is required of the architect, for were he gifted only with ingenuity, he might be only a mechanic and nothing more.”

INSIDE FACTS ABOUT STUCCO.

(Continued from page 227.)

affected by the elements. Bituminous waterproofing products belong to this class, and compounds have been developed which are miscible with water yet become absolutely insoluble after the mortar has set. This result is obtained by emulsifying the bitumen which then mixes with water as easily as milk does (milk is an emulsion). But when the mortar sets, it de-emulsifies the bitumen, which then becomes as insoluble as a milk spot. (Butter is de-emulsified milk and is not miscible with water.)

Bituminous emulsions, like impervite,* give a very high degree of permanent waterproofing. They are absolutely unaffected by salt-air, brine, running water, boiling water and ordinary chemicals. Weight for weight they give four times the efficiency of soap compounds, yet they actually strengthen the mortar instead of weakening it and because of the lack of harmful the amount of compound is not limited to 2 per cent. If desired 10 per cent. or more may be incorporated in the mixture and the waterproofing effect correspondingly increased. In this way

a factor of safety may be secured which is as important in waterproofing as in other branches of engineering. It then becomes possible to waterproof under guarantee a cellar 50 feet below tide level by means of a 3/4-inch interior mortar facing. Evidently this is the kind of material which will give satisfaction also in external stuccos, where no pressure is encountered, but where on account of the lean mixture, a safety factor is desirable to cover variations in mixing and plastering.

Bituminous materials also lubricate the mortar, enabling a very lean mixture to be troweled easily and compactly. They also retard the too rapid drying out of the stucco.



Protecting Green Stucco.

We might mention here that if new, green stucco is subjected to the rapid evaporation of hot summer days, great care must be taken to prevent premature drying out. It must be remembered that the setting of Portland cement is a chemical reaction that requires time and moisture. Mortar will have no strength unless this set is obtained. As mortar dries it shrinks. This shrinking puts a strain on the mortar which causes cracks if it comes before the cement has sufficient strength to withstand it. If however, the stucco is kept moist for several days, by means of tarpaulins, or fine spray, the cement will harden normally and become strong enough to withstand the strain caused by drying. Soap compounds should be avoided as they delay the setting thus, thus causing the mortar to remain weak for a longer time. If stucco is made from a lean mortar, properly waterproofed, properly foundationed, and kept from premature drying, it may be allowed to harden without fear of immediate or subsequent cracking.

Heat Also Causes Expansion.

On large surfaces the thermal expansion should be considered, especially if the stucco is applied to a base having a different rate of expansion. It may be advisable to divide the surface into panels, having projections which add to the pleasing effect and facilitate the uniform application of the stucco.

The above outline calls attention to a few internal characteristics which are vital. Relieve the stucco of the disrupting strains caused by their disregard and a worthy ma-

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Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The Henry S. Spackman Engineering Company, inspecting and chemical engineers, announces the removal of its Philadelphia offices and laboratories to its new building, 2024 Arch street, Philadelphia.

**Harold M. Leh, of the H. M. Leh Company, 1519 Real Estate Trust Building, Philadelphia, Pa., dealers in waterproofing, including "Minwax," recently returned from a joint business and pleasure trip to Allentown, Pa., where he attended the wedding of a friend. At the office business was reported to be running smoothly, with every indication of continuing so throughout the remainder of the present period.

**George S. Bartlett, one of the widest known as well as one of the most popular and able members of the Portland cement fraternity of the country, has been elected to the vice-presidency of the Edison Portland Cement Company. This will move Mr. Bartlett permanently down to New York. He has been living in Milwaukee for the past 25 years.

**The first annual report of the Giant Portland Cement Company, for eight months of operation from May 1 to December 31, 1913, shows: Total receipts, \$691,595; manufacturing and operating expenses and taxes, \$598,551; net, \$93,043; bonded interest, \$30,000; surplus, \$63,043.

**Beginning January 1, 1914, the Charles Warner Company, Wilmington, Del., discontinued the sale of Nazareth cement in Wilmington, Delaware, Maryland and Virginia districts. This company will sell Bath Portland cement, produced by the Bath Portland Cement Company. The Bath plant is at Bath, Pa.

**Notice has been issued by the Sandusky Portland Cement Company, Sandusky, O., that "the Medusa waterproofing patent has been sustained, and that in the United States district court, Northern district of Illinois, on February 13, 1914, a decree was entered declaring the Newberry Patent, No. 851,247, to be good and valid; that the McCormick Waterproof Portland Cement Company and S. T. Sjoborg infringed said patent and are perpetually enjoined from making or selling waterproof cement or carrying on the process described in said patent; that the complainant shall recover the damages resulting from said infringement. Suits against other infringers have been begun and will be vigorously prosecuted."

**One of the most interesting conventions ever held by the Mason Material Dealers' Association of New Jersey was their tenth annual meeting held at Hotel Manhattan, New York City, Thursday, March 19. Notices sent

to members of the association foretold that live subjects such as "The Bag Question," "The Handling and Sale of Cement," "Credits" and "Report of Lien Law Committee" would be discussed.

The nomination committee submitted as its report the following list of candidates for the various offices to be filled: President, Frank H. Genung, Newark; Vice-Presidents, Priah F. Washburn, Jersey City; F. W. Veghte, Roselle; Treasurer, Charles Agnew, Paterson; Board of Trustees (for a period of three years), George A. Smock, Asbury Park; Edwin Demarest, Tenafly; I. R. Rolfe, New Brunswick; J. W. Clinton, Passaic; Charles J. Smith, Somerville; L. V. Ludlow, Far Hills. The report was duly received, whereupon the Secretary was instructed to cast a vote for the association in favor of the candidates whose names had been submitted.

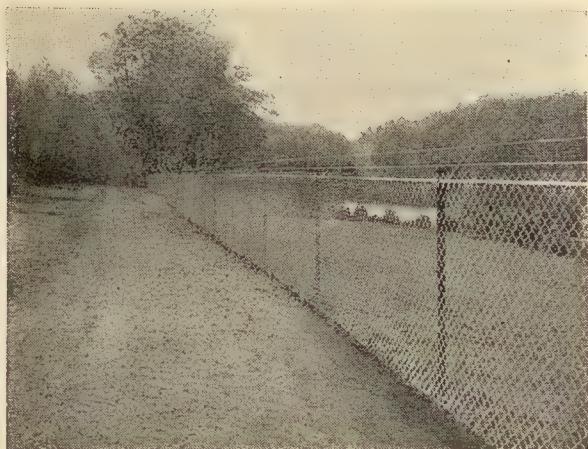
In addition to the officers elected, there are twelve trustees, whose terms did not expire. They are: Morton T. Brewster, Ridgefield Park; M. P. Stevens, Bayonne; H. A. Todd, Plainfield; J. C. Tattersall, Trenton; M. F. Ellis, Bernardsville; W. C. Salmon, Boonton; J. D. Loizeaux, Plainfield; Horace S. Osborne, Upper Montclair; G. Frederick Richters, Perth Amboy; Elmer Blauvelt, Hackensack. James M. Reilly, of Newark, remains Secretary.

**Otis Elevator Company in its pamphlet report for the year ended December 31, 1913, showed net earnings of \$1,157,395; balance, \$767,395. This is equal to more than twelve per cent. on the common stock, as compared with fourteen per cent. earned on the same stock in the previous year. In his report to the stockholders, W. D. Baldwin, President of the company, attributes the drop in business to the decline in building operations which prevailed throughout the country last year.

**William E. Parsons, graduate of the Ecole des Beaux Arts, and for the last seven years the Government architect at Manila, P. I., is now on his return to America. Mr. Parsons will enter the office of E. H. Bennett, architect, Railway Exchange Building, Chicago, Ill., and will take an active part in the work now under way on the comprehensive plan for the city of Ottawa, Canada. While in the Philippines, Mr. Parsons had charge not only of the erection of Government buildings at Manila, but of the planning of that city as well.

**The Ninth Exhibition of the Brooklyn Chapter, American Institute of Architects, was opened Saturday evening, March 14, at 131 Remsen street, Brooklyn, by a private

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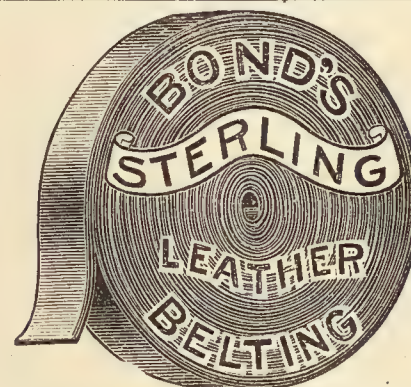
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view and reception for members, which was followed by the annual dinner of the Chapter. William P. Bannister, President of the Chapter, acting as toastmaster, introduced as the principal speaker of the evening Rudolph P. Miller, Superintendent of Buildings in Manhattan. Mr. Miller strongly advocated the establishment of a Department of Public Safety and referred to the one now in operation in Philadelphia as a good example for any city to follow, putting the entire responsibility up to one department instead of dividing it as is done at present in New York City. R. D. Kohn, President of the New York Chapter, spoke briefly on the work of his Chapter and the necessity of co-operation between the Brooklyn and New York Chapters. The exhibition will be open to the public without charge daily and Sunday up to and including March 28, from 12 M. to 10 P. M.

**Asbestos Protected Metal Company has moved its New York City office from 100 Broadway to 52 Broadway.

**I. Edgar Hill, architect, formerly connected with Edgar V. Seeler, architect, of Philadelphia, has opened offices for the practice of his profession at Seneca street, Geneva, N. Y.

**Master Builders' Association of New Jersey will hold its annual convention in Orange, N. J., April 23, 1914. V. P. Christoffer-son, Perth Amboy, N. J., Secretary. Further details will be announced at a later date.

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Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

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He would save the commission of the architect, but ruin the store.

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The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

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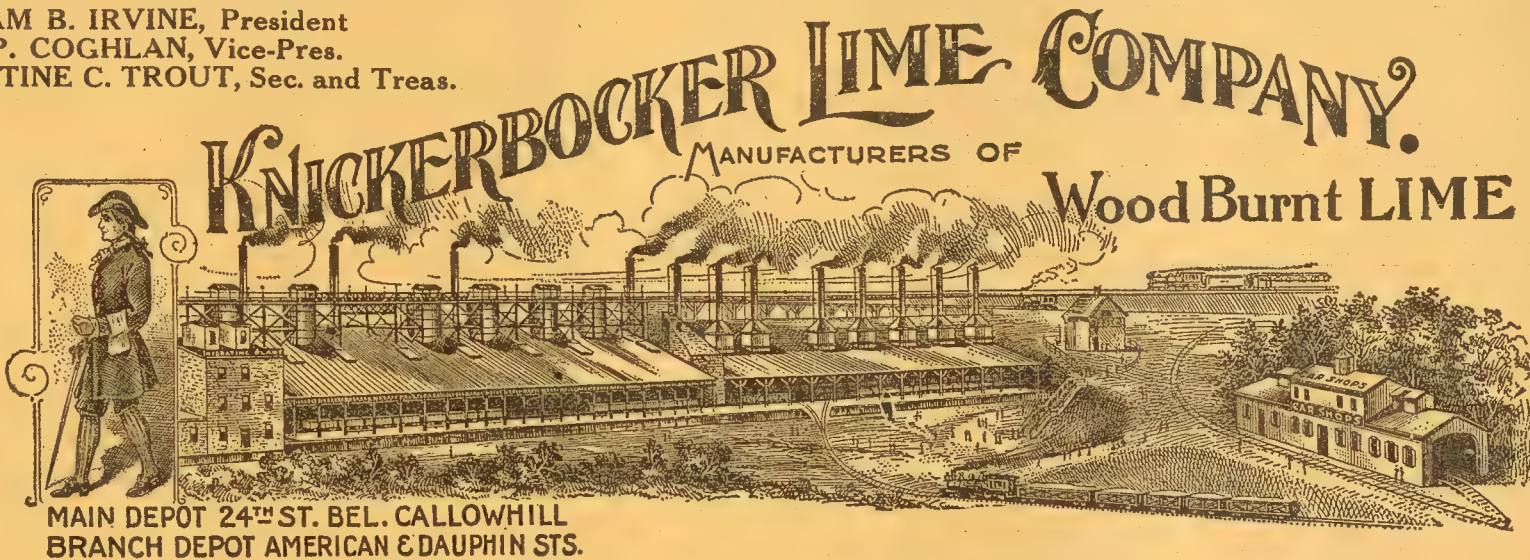
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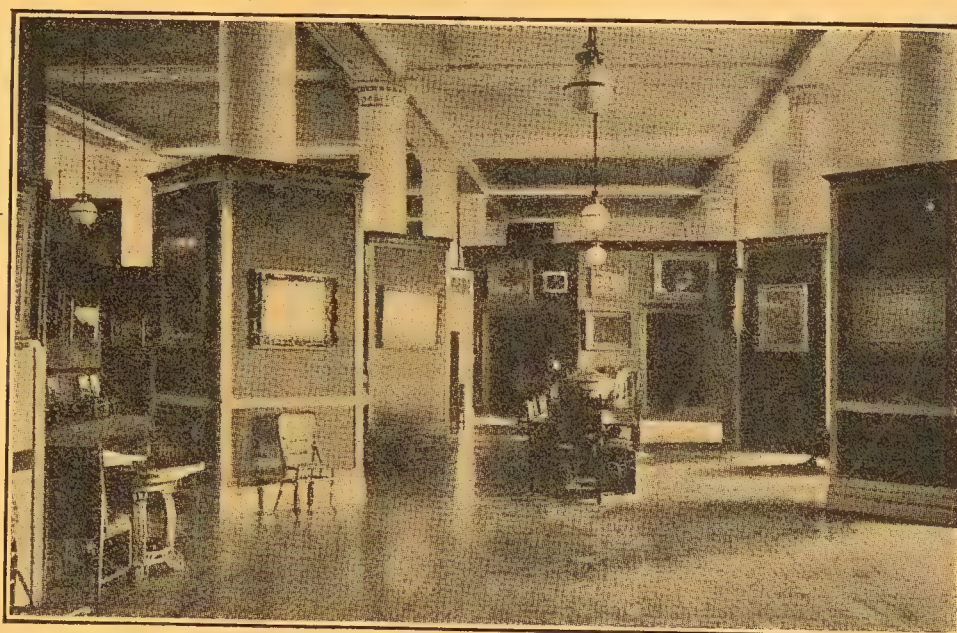
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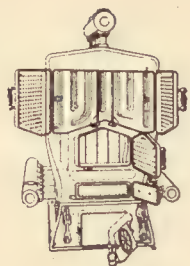
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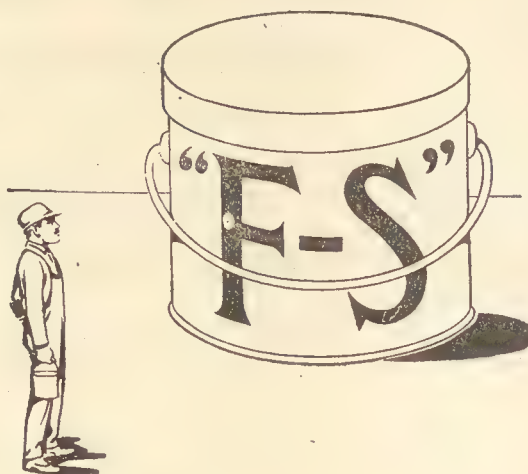
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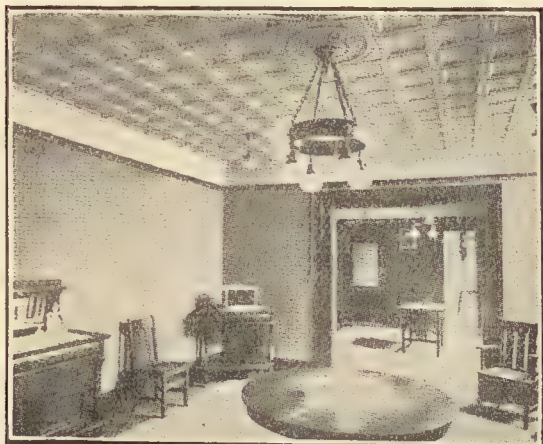


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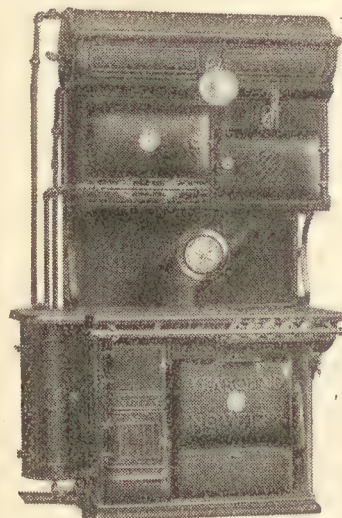
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Vol. XXIX., No. 15.

PHILADELPHIA, WEDNESDAY, APRIL 15, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church (add.), Forty-first and Ludlow streets. Architect, Samuel H. Byethwood, 807 South Nineteenth street. Owner, Monumental Baptist Church, care of Rev. J. M. Moses, 317 North Forty-second street. Brick and Indiana limestone trimmings, 1 story, 40x35 feet, slate roof, extension to steam heating, electric lighting, rolling partitions. Owners have received bids.

Picture Theatre, Forty-sixth and Market streets. Architect, private plans. Owner, William Mitchell, 8 South Farragut Terrace. Brick and terra cotta, 1 story, 30x110 feet, slag room, steam heating, electric lighting. Plans in progress.

Dwellings (30) and **Stores** (4), Sixtieth street, Cobb's Creek and Parkway. Architect, private plans. Owner, Frederick S. Fox, 1308 South Sixteenth street. Brick, 2 stories, 16x50 feet, slag roof, hot-water heat, electric light, hardwood floors. Plans in progress. Owner will take sub-bids.

Office and Apartment (alt. and add.), 115 South Sixteenth street. Architect, Lloyd Titus, Cape May, N. J. Owner, Frank B. Off, on premises. Brick, 3 stories, slag roof, electric lighting, oak floors (heating reserved). Owner received bids April 13th.

Club House (add.), 1312 North Broad street. Architect, Herman Schweitzer, 1314 North Broad street. Owner, Loyal Order of Moose, on premises. Brick and steel, fireproof, 3 stories, 70x110 feet, slag roof, steam heating, electric lighting. Architect received revised bids April 15th.

Saloon and Residence, Kensington avenue and Albert street. Architect, private plans. Owner, C. Schmidt & Sons Brewing Co., 127 Edward street. Brick, 3 stories, 26x42 feet, slag roof, steam heating, electric lighting, bar fixtures, metal lath, metal ceilings, tile and marble work. Builders, John N. Gill & Co., Heed Building, are taking sub-bids on all lines.

Theatre, 937 South street. Architect, M. Haupt, Drexel Building. Owner, S. S. Fineman, 223 South Sixth street. Brick, 1 story, 40x108 feet, slag roof, steam heating, electric lighting. Plans completed. Owner will take bids.

Hospital (alt. and add.), Broad and Wolf streets. Architects, Stearns & Castor, Stephen Girard Building. Owner, Methodist Episcopal Hospital, on premises. Consists of interior alteration and addition, metal lath, fireproof. Architects taking bids due April 15th. The following are figuring: F. E. Wallace, 1210 Sansom street; H. E. Baton, Twelfth and Sansom streets; Fidelity Construction Co., Heed Building.

Residence (alt. and add.), Torresdale, Phila. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Charles H. Howell, Torresdale, Phila. Frame, 2½ stories, 37x29 feet, slate roof, hot-water heating, electric lighting, metal lath. Architects received bids April 13th.

Hospital (add.), Thirty-fourth and Spruce streets. Architects, Brockie & Hastings, 1713 Sansom street. Owner, University of Pennsylvania. Brick, stone and steel, fireproof, 3 stories, 45x105 feet, slate roof, elevators, metal frames and sash (heating from central plant and electric work reserved). Revised plans about completed. Architects will take bids in a few days.

Store and Office Building, 1414-1416-1418 Chestnutstreet. Architect, John T. Windrim, Commonwealth Building. Owner, John Wanamaker, Thirteenth and Chestnut streets. Brick, 5 stories. Plans in progress.

Apartment House, Broad and Ellsworth streets. Architect, George I. Lovatt, 418 Walnut street. Owner, Mrs. M. L. Watson, 4961 Walton avenue. Brick, 3 stories, 60x30 feet, tin roof, steam heating, electric lighting. Architect taking bids due April 20th. In addition to those previously reported, Henry L. Brown, 1714 Sansom street, is figuring.

Store (alt. and add.), 930 Market street. Architects, Stearns & Castor, Stephen Girard Building. Owners, Berg & Berg, on premises. Brick, consists of interior alteration and addition, electric lighting, composition and hardwood floors. Architects have received bids.

New Front (add.), 524 Race street. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, W. C. Root, on premises. Brick. Architect taking bids due April 11th.

F. E. Wallace, 1210 Sansom street, is the only bidder.

Factory (add.), 3619 Lawrence street. Architect, private plans. Owners, Roberts Embroidery Co., on premises. Brick, 1 story, 60x104 feet, slag roof. Owners taking bids due April 15th. T. C. Trafford, 1613 Sansom street, and Samuel Morrison, 3601 North Fifth street, are figuring.

Factory Building Indiana avenue and Croskey street. Architects, Anderson & Haupt, Drexel Building. Owners, Atlantic Embroidery Co., 2119 Toronto street. Reinforced concrete, 1 story, 90x200 feet, slag roof, steam heating, electric lighting. Architects taking bids due April 20th, 12 o'clock. The following are figuring: A. R. Raff, 1635 Thompson street; A. Bottoms & Sons Co., 41 South Fifteenth street; James G. Doak & Co., Crozer Building; Doyle & Co., 1512 Sansom street; Standard Construction Co., Drexel Building; H. E. Baton, Twelfth and Sansom streets.

Factory, Tenth and Dakota streets. Architects, private plans. Owner, A. C. Krumm & Son, 1012 Dakota street. Brick, 3 stories, 35x85 feet, slag roof, metal sash and frames (heating and lighting, reserved). Owner taking bids due April 15th. F. A. Havens Co., 845 North Nineteenth street; Harry Gill, Jr., 2515 Germantown avenue; H. R. Wehmeyer, 1004 West Lehigh avenue; P. Haibach Construction Co., Twenty-sixth and Thompson streets, are figuring.

Factory Building, 510-12-14 Pine street. Architect, private plans. Owners, Allen R. Cressman & Sons, on premises. Brick and concrete, 4 stories, 52x140 feet, slag roof, steam heating, electric lighting. Berry-Goodwin Co., Drexel Building, are figuring.

Post Office, Seventy-third street and Woodland avenue. \$10,000. Architect, H. M. Pedrich, Post Office Building, Darby, Pa. Owner, T. F. Dempsey, 7223 Woodland avenue. Brick and terra cotta, 2 stories, 20x52 feet, 18x48 feet, slag roof, hot-water heating, electric lighting, oak floors. Plans in progress.

Warehouse and Cold Storage Plant, 3525 Germantown avenue. Architect, private plans. Owner, McCray & Hunter, on premises. Brick

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and steel, 2 stories, 45x96 feet, slag roof (lighting and elevators, reserved). Owners taking bids due April 15th. The following are figuring: H. P. Schneider, York road and Erie avenue, and Lam Building Co., 1001 Wood street.

Building (alt. and add.), Sixth and Chestnut streets. Architect, Guy King, 1513 Walnut street. Owners, Guarantee Trust and Safe Deposit Co., 316 Chestnut street. Consists of interior alterations and addition, slag roof, steam heating, electric lighting, metal lath. Architect taking bids due April 15th. William R. Dougherty, 1610 Sansom street; A. Whitehead, Inc., 124 Latimer street; A. P. Fraim, 319 Market street, are figuring.

Picture Theatre, 2907-09-11 North Fifth street, Architect, F. N. Greisler, 2560 Frankford avenue. Owner, Levick & Waldo, 1829 South Seventh street. Brick, 1 story, 45x100 feet, slag roof, steam heating, electric lighting. Owners taking bids due April 15th. Lam Building Co., 1001 Wood street, is figuring.

Warehouse, Front and Palmer streets. Architect, W. E. S. Dyer, Land Title Building. Owners, Woods & Hooker, 1740 North Front street. Brick, 2 stories, 52x108 feet, slag roof. Architect taking bids due April 17th. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; J. R. Jackson, Perry Building; James G. Doak & Co., Crozer Building; Stacy Reeves & Sons Co., 2011 Market street; George L. Sipps, 912 Locust street; J. Sims Wilson, 1125 Brown street; H. E. Grua Co., 1709 Sansom street; Herman Voight, 1251 North Twenty-eighth street; F. W. Van Loon, Denckla Building; H. E. Baton, Twelfth and Sansom streets; Harry Gill, 2515 Germantown avenue; Ed. Fay & Sons, 2 South Mole street; George F. Pawling Co., Broad and Vine streets.

Garage, St. Martin's, Phila. Architects, Thomas & Churchman, 130 South Fifteenth street. Owner, Samuel L. Logan, Moreland and Tawanda streets. Stone, 1½ stories, 23x30 feet, slate and shingle roof, electric lighting, hot-water heating. Architects received bids April 14th.

Residence, Germantown. \$25,000. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Daniel H. Carstairs, 15 South Third street. Stone, 2½ stories, shingle roof, electric lighting, hardwood floors. Plans in progress.

Residence (alt. and add), School lane, Germantown. Architects, Brockie & Hastings, 1713 Sansom street. Owner, W. G. Warden, Witherspoon Building. Stone, 2½ stories, shingle roof, electric lighting. Plans in progress.

Factories and Stores (17), Broad and South streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, R. & F. J. Jacobs, 1427 Catherine street. Brick and concrete, 3 stories, 196x60 feet, slag roof, steam heating, electric lighting. Plans completed. Bids in a few days.

Parochial School, Twenty-eighth street and Allegheny avenue. Architects, E. F. Durang & Sons Co., Twelfth and Chestnut streets. Owner, Church of the Corpus Christi, on premises. Stone, 3 stories, 68x130 feet, slag roof (heat and light, reserved). Architects taking bids due April 17th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; M. L. Connec Co., 315 South Twentieth street; Melody & Keating, Bailey Building; William R. Dougherty, 1610 Sansom street; I. T. Shoemaker, 6910 Mower street; John McShain, 631 North Seventeenth street; W. J. McShane, 417 South Thirteenth street; J. J. Murphy, 4034 Powelton avenue; D. W. O'Dea, 521 North Fifth street.

Residences (35), Fifty-seventh and Christian streets. Architects, Anderson & Haupt, Drexel Building. Owners, Seidman & Getz, 1312 North Sixth street. Brick, 2 stories, 16x55 feet each, slag roof, hot-water heating, gas and electric lighting. Owners taking sub-bids.

Residence (alt. and add.), Mt. Airy, Phila. Architect, H. C. Wise, Franklin Building, Philadelphia. Owner, James Andrews, Mt. Airy, Phila. Stone, 2½ stories. Architect taking bids due April 18th. W. J. Gruhler, 219 High street; R. C. Ballinger Co., 218 North Thirteenth street; Stokes Bros., 6723 Musgrave street; M. S. Oberholtzer, 5524 Pulaski street, are figuring.

Children's Building, Chestnut Hill, Phila. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Hospital for Consumptives, Chestnut Hill, Phila. Hollow tile and plaster, 1¾ stories. Plans in progress. Bids in about one week.

Mome, Mt. Airy, Phila. Architects, Stewardson & Page, 316 Walnut street. Owner, Pennsylvania Institution for the Deaf and Dumb, Mt. Airy, Phila. Stone, 1 story, 76x

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128 feet, slate roof, metal lath, metal frame and sash (heating and lighting, reserved). Architect taking bids due April 24th. The following are figuring: Irwin & Leighton, 126 North Twelfth street; F. E. Wallace, 1210

Sansom street; Jacob Myers & Sons Co., Witherspoon Building; William R. Dougherty, 1610 Sansom street; Roydhouse-Arey Co., Fidelity Building.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

High School, Germantown avenue and High street. \$614,927. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Stone and brick, fireproof, 4 stories and basement, 150x200 feet, slate and slag roof (steam heating and electric lighting, separate bids), salt glazed brick, water-proofing, damp-proofing, metal lath, asphalt floors, steel frames and sash, metal doors and trimmings, steel casements. Contract awarded to Thomas Reilly, 1616 Thompson street.

Apartment House, Thirty-ninth, below Chestnut street. Architect, Charles E. Oelschlager, Harrison Building. Owners, name withheld. Brick, marble trimmings, 4 stories, 84x100 feet, asbestos roof, vapor vacuum heating, electric lighting, hardwood floors, clothes' driers. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, who are taking sub-bids.

School (add.), Bridesburg, Phila. Architect, J. Horace Cooke, Land Title Building. Owner, Board of Education, City Hall. Brick and stone, 3 stories, slag roof (steam heat and electric lighting, reserved). Lowest bid submitted by P. J. Hurley, 1233 Cherry street. \$25,795.

Synagogue, 2302-04 North Mascher street. \$10,000. Architects, Magaziner & Potter, 603 Chestnut street. Owners, Congregation of Love of Israel, on premises. Brick and stone, 1 story, 36x100 feet, composition roof, hot-air heating, electric lighting. Contract awarded to Sokolove & Glukman, 1715 North Franklin street, who are taking bids.

Residence, Greene street and Mt. Airy avenue, Germantown. \$14,000. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Mrs. E. B. Carter, Westview and Wayne avenues. Stone, 2½ stories, 40x69 feet, shingle roof, electric lighting. Contract awarded to W. John Stevens, Wyncote, Pa.

Office Building, 1701-03-05 Arch street. \$175,000. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Board of Home Missions and Church Extension, 1026 Arch street. Stone, brick and terra cotta, 6 stories, 60x114 feet, slag roof (heat and light, reserved), fire-proofing, concrete and hollow tile, damp-proofing, water-proofing, metal lath, metal

partitions, metal frames. Contract awarded to Cramp & Co., Denckla Building.

Store (alt. and add.), 2744 Grays Ferry road. \$500. Architect, private plans. Owner, Alexander Green, on premises. Brick, 3 stories, consists of new store front. Contract awarded to F. T. Mercer Co., 1706 Delancey street.

Residence, Chestnut Hill, Phila. Architect, private plans. Owner, Henry A. Simmons, care of builder. Stone, 2½ stories, 35x42 feet, wing 18x24 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood floors. Contract awarded to J. Sims Wilson, 1125 Brown street, who is taking sub-bids.

Barrel Shed and Stable, Swanson and Porter streets. \$15,000. Architect, private plans. Owners, C. E. Johnson Co., 509 South Tenth street. Brick, 1 and 2 stories, 64x100 feet, 28x65 feet, asbestos roof. Contract awarded to John Botwright, 5909 Pine street, who is taking sub-bids.

Store (alt. and add.), 2629-31 Kensington avenue. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, Harry Rosenthal, on premises. Brick, 3 stories, consists of interior alterations and additions and new front. Contract awarded to J. G. Myhlertz, 1737 Filbert street.

Stores and Residence (2), Thirteenth street and Germantown avenue. Architect, George S. Idell, 34 South Sixteenth street. Owner, Caroline Weber, 3600 Germantown avenue. Brick, 2 and 3 stories, 36x40 feet, slag roof, hot-water heat, electric lighting. Contract awarded to H. E. Sweger, 4435 North Uber street.

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Residence (alt. and add.), Conshohocken, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Philadelphia. Owner, William S. Perot, Conshohocken, Pa. Stone, 2½ stories. Plans about to be started.

Factory (add.), Marcus Hook, Pa. Architects, Ballinger & Perot, 1211 Arch street, Philadelphia. Owners, American Viscose Co., on premises. Brick, fireproof, 1 and 2 stories, 123x135 feet, slag roof, steel sash and frames, rolling steel shutters, electric lighting. Architect taking sub-bids, and William Provost, Jr., of Chester, Pa., is figuring. Bids due April 22nd.

Cottage, Elizabethtown, Pa. Architects, Zantzinger, Borie & Medary, northeast corner Fifteenth and Walnut streets, Phila. Owner, Grand Lodge, F. and A. M., Broad and Arch streets. Stone, 3 stories, 80x100 feet, slate roof, hot-water heating electric lighting, metal sash and frames, metal lath, damp-proofing. Architects taking bids due April 20th. The following are figuring: R. C. Ballinger & Co., 218 North Thirteenth street; F. A. Havens & Co., 845 North Nineteenth street; Jacob Myers & Sons Co., Witherspoon Building; A. R. Raff, 1635 Thompson street; Pringle Borthwick, 8018 Germantown avenue, all of Philadelphia, and J. C. Hall, Huntingdon, Pa.

Factory, Newtown Square, Pa. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Father Maguire, Newtown Square, Pa. Stone, 2½ stories, 32x38 feet, slate roof, hot-water heating, electric lighting. Architects taking bids due April 18th. P. J. Hurley, 1233 Cherry street; M. L. Coneen & Co., 315 South Twentieth street; J. Myers & Sons Co., Witherspoon Building; J. McShain, 631 North Seventeenth street; J. McKenna & Sons, 1023 Race street; J. E. Flounders, 1329 Arch street, all of Philadelphia, and T. J. Porter, Media, Pa.

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329 Walnut Street, Phila.**PENNSYLVANIA****Construction News**

Kennels, Unionville, Pa. Architects, Melior & Meigs, 205 South Juniper street, Philadelphia. Owner, W. Plunkett Stewart, Commercial Trust Building, Philadelphia. Hollow tile, 1 story, 40x50 feet, shingle roof. Plans in progress. Ready for bids in one week.

School (alt. and add.), Pottstown, Pa. \$50,000. Architects, Hewitt & Granger, Bullitt Building, Philadelphia. Owner, The High School, Pottstown, Pa. Stone, fireproof, 1 and 2 stories, slate roof, hot-water heating, electric lighting. Builder, Thomas Little & Sons, 1713 Moravian street, Philadelphia, is taking sub-bids.

Bank Building, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Citizen's National Bank, Pottstown, Pa. Granite, brick and steel, 1 story, 42x60 feet, slate roof, steam heating, electric lighting, tile and marble work, mahogany banking fixtures. Owner taking bids. The following are figuring: William H. Wiand, Frank H. Keiser, Hutt & Knode, William Hampton, Copeland & Rapp, all of Pottstown, Pa.

Club House, Grandstand and Race Track, Hatboro, Pa. Architects, Heacock & Hoksanson, Bailey Building, Philadelphia. Owners, Philadelphia Motor Speedway Co., Land Title Building, Philadelphia. Frame, concrete and brick, 1 story, plans in progress.

School, Mahanoy City, Pa. Architect, Frank X. Reilly, Pottsville, Pa. Owner, Board of Education, Mahanoy City, Pa. Brick and stone, fireproof, 3 stories, 66x125 feet, slate roof (heat and light, reserved), metal lath. Owners taking bids due April 24th. Berry-Goodwin Co., Drexel Building, Philadelphia, is figuring.

Barn, Meadowbrook, Pa. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, William E. Weber, 509 South Tenth street, Philadelphia. Stone and pebble dash, 1½ stories, shingle roof, electric lighting. Architects received bids April 14th.

High School, Lansdale, Pa. Architect, George E. Savage, Witherspoon Building. Owner, School Board of Lansdale, Pa. Stone, 2 stories, 60x125 feet, slag roof, metal lath, hollow tile and concrete, fireproofing, maple uoors [heating, ventilating and electric work, separate bids.] Owners taking bids due April 20th. The following are figuring: A. Whitehead, Inc., 1624 Latimer street; E. E. Hollenback, Fifteenth and Race streets; Specht & Sperry, Heed Building; M. W. Anstine & Co., 1218 Filbert street; John W. Emery, 1524 Sansom street; James B. Flounders, 1329 Arch street, all of Philadelphia; Ludwig Kaelin, Lansdale, Pa.; Stoneback &

Nase, Richland Centre, Pa.; H. J. Wenzelberger, Phillipsburg, N. J.

Bungalow, Finland, Pa. \$3,500. Architect, M. B. Bean, Lansdale, Pa. Owner, William D. Heebner, Lansdale, Pa. Stone, 1½ stories, 37x30 feet, shingle roof, hardwood floors, gas machine. Architect taking bids due April 22nd.

Studio, Lansdale, Pa. \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Wesley Heebner, Lansdale, Pa. Hollow tile and sand lime bricks, 2½ stories, 17x55 feet, asbestos shingle roof, steam heating, gas and electric lighting, mosaic panels, leaded glass. Architect has received bids.

Bungalow, Lansdale Heights, Pa. \$3,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Lester Freed, Lansdale, Pa. Brick, 1½ stories, 30x45 feet, slate roof, steam heating, gas and electric lighting.

School Building, Norristown, Pa. \$6,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Mrs. Mattie J. Z. Boorse, Norristown, Pa. Brick, 2½ stories, 60x35 feet, slate roof, hot-air heating, gas and electric lighting, hardwood floors. Plans in progress.

School Building, Lower Saucon Township, Pa. \$15,000. Owner, School Board Lower Saucon township. Brick, 2 stories, 75x60 feet, slate roof, steam heating, gas and electric lighting. Owners taking bids due April 18th.

Fied House, South Bethlehem, Pa. \$20,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Lehigh University, South Bethlehem, Pa. Sand lime bricks and concrete, 3 stories, 75x141 feet, slag roof, steam heating, gas and electric lighting, concrete uoors. Architect taking bids due April 22nd.

Residence, Conshohocken, Phila. Architect, V. Grater, Norristown, Phila. Owner, H. C. Pugh, Conshohocken, Phila. Stone, 2½ stories, 40x42 feet, slate roof, vapor vacuum heating, electric lighting. Owner has received bids.

Factory (add.), Eighth street, Reading, Pa. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, W. H. Luden, on premises. Brick, 4 stories, 57x110 feet, slag roof, electric lighting. Plans in progress. Architect will take bids in two weeks.

School (add.), West Potts Grove, Pa. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, School Board, West Pottsgrove, Pa. Brick, 2 stories, 64x74 feet, slate roof, steam heating, gas and electric lighting. Plans in progress. Owners will take bids in three weeks.

Apartment and Store Building (alt. and add.), West Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. S. Swartz, Reading, Pa. Brick, 3

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stories, 25x77 feet, slag roof, vapor heating, gas and electric lighting, hardwood floors. Revised plans in progress.

Office Building (alt.), 126 North Fifth street, Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, name withheld. Brick, 2 stories, 40x58 feet, gas and electric lighting, art glass partitions.

Hotel, Fifth and Washington streets, Reading, Pa. \$450,000. Architect, private plans. Owner, Perry Square Hotel Co., Reading, Pa. Builders, H. L. Stevens & Co., Fifth and Washington streets, Reading, Pa. Brick, terra cotta and concrete, 8 stories, 91x165 feet, composition roof, electric lighting, concrete and tile floors, metal frames and sash, 3 elevators, laundry machinery, vault, ice machinery, bar fixtures. Working on foundations. Builders taking sub-bids.

School Building, Rosemont, Pa. Architects (associated), D. K. Boyd, John L. Coneys and Victor Abel, northeast corner Fifteenth and Walnut street. Owner, School Board of Radnor township, Wayne, Pa. Brick and stone, 1 story, 160x40 feet; 2 wings, 40x40 feet each; slate roof, hot-air heating (separate bids on electric work). Owner taking bids due April 21st.

Gardener's Cottage, Gladwynne, Pa. Architect, C. S. Adams, 1509 Arch street, Philadelphia. Owner, C. P. Hagenlocher, Land Title Building, Philadelphia. Stone and shingle, 2½ stories, 28x30 feet, shingle roof, hot-air heating, electric lighting. Sub-bids are being taken by George W. Deaves, Llanerch, Pa.

Residence and Garage, Lansdowne, Pa. \$5,000. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, name withheld. Stone and stucco, 2½ stories, 42x30 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Fire House and Hall, Colwyn, Pa. \$5,000. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, Borough of Colwyn, Delaware Co., Pa. Brick, 3 stories, 25x85 feet, slag roof, hot-water heating, electric lighting, asbestos shingle roof. Plans in progress.

Residence and Garage, Wawa, Pa. \$60,000. Architects, Stearns & Castor, Stephen Girard Building. Owner, Mrs. Florence W. Wood, 2211 St. James Place, Philadelphia. Stone, 3 stories, 50x110 feet, slate roof (heating and lighting, reserved), oak floors, hollow tile partitions, metal lath. Revised plans in progress.

School (add.), Milton, Pa. \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, 2 stories, two-room addition and new heating system. Plans in progress.

Fire House and Town Hall, Halifax Borough, Pa. \$3,500. Architect, George H. Grove, Harrisburg, Pa. Owner, Halifax Fire Co., Halifax, Pa. Co., Halifax, Pa. Brick, 2 stories, 34x44 feet, slate roof, concrete floors. Owners now taking bids.

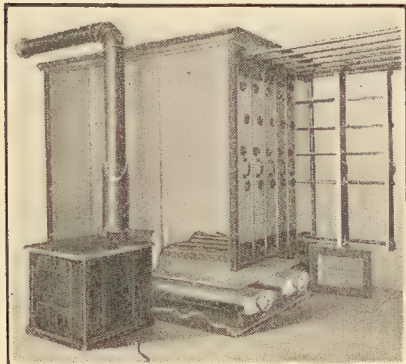
Twin Houses, Harrisburg, Pa. \$5,000. Architect, George H. Grove, Harrisburg, Pa. Owner, F. C. Miller, 213 Walnut street. Brick, 3 stories, 18x45 feet, tin roof, combination lighting. Plans in progress.

Apartments (alt. and add.), 1522 North Second street, Harrisburg, Pa. \$4,500. Architect, George H. Grove, Harrisburg, Pa. Owner, H. K. Nissley, 14 North Third street, Harrisburg, Pa. Brick, 3 stories, 18x62 feet, slate roof, steam heating, electric lighting and gas lighting. Owners will take bids in two weeks.

Club House, West Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Phila. Owners, New Century Club, West Chester, Pa. Hollow tile and stucco, 2½ stories, 50x150 feet, slate roof, hot-water heating (electric lighting, reserved), hardwood floors. Architect taking bids due April 21st. The following are figuring: W. J. Jones, Smedley & Hoopes, J. Burns, D. S. Sullivan, P. E. Jefferis, C. R. Baldwin, H. M. Farra, all of West Chester, Pa.

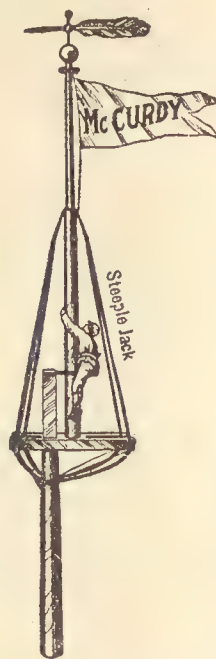
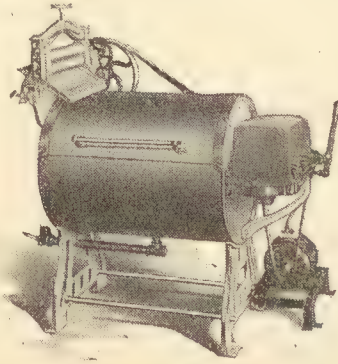
Boat House, Haverford, Pa. Architects, Thomas & Churchman, 1309 Walnut street, Phila. Owner, Howard Longstreth, Haverford, Pa. Frame, 2 stories, 19x29 feet, shingle roof. Architects taking bids due April 18th. The following are figuring: J. P. Stirk, Gladwyn, Pa.; Doyle Bros., Bryn Mawr, Pa.; J. E. Grant, 1625 North Thirteenth street; George McConaghy, Ardmore, Pa.; J. M. Warner, Bryn Mawr, and Henry L. Brown, 1714 Sanm street, Phila.

Garage, Haverford, Pa. Architect, H. W. Selers, Stephen Girard Building, Phila. Owner, Wilfred Lewis (President Tabor Manufacturing Co.), Eighteenth and Hamilton streets, Phila. Stone and plaster, 2 stories, 27x34 feet, shingle roof, damp-proofing, metal lath (heating, electric work and gasoline pump, reserved). Architect taking bids due April 16th. A. L. Fretz & Sons, 1222 Chancellor street, are figuring.



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Residence, Haverford, Pa. Architects, Duh-ring, Okie & Zeigler, Bailey Building, Phila. Owner, Charles R. Wentz, Land Title Building, Phila. Stone, 2½ stories, slate roof, hot-water heat, electric lighting, hardwood floors. Plans about completed. Bids in one week.

Residence (alt. and add.), Camp Hill, Pa. \$5,000. Architect, Albert Kelsey, Perry Building, Phila. Owner, Mrs. M. E. Ilmsted, Harrisburg, Pa. Frame and plaster, 2½ stories, 18x49 feet, shingle roof, hot-air heating, electric lighting. Plans in progress.

Church and Sunday School, Easton, Pa. \$30,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Luke's Lutheran Church, care of Rev. A. M. Stump, Easton, Pa. Stone, 1 story, 50x110 feet, slate roof, steam heating, gas and electric lighting, maple floors. Plans in progress.

Factory (add.), Myerstown, Pa. Architects, Hauer & Mowere, Lebanon, Pa. Owners, S. Liebovitz & Sons, Myerstown, Pa. Brick, 4 stories, 38x45 feet. Architects taking bids.

Mausoleum, York, Pa. \$50,000. Supervizing Architect, Edward Leber, York, Pa. Owner, American Mausoleum Co., Chicago, Ill. Granite and concrete, 1 story, 132x40 feet, composition roof, marble work, bronze doors. Plans completed. Owners and Architect will award sub-contracts.

School Building, East Greenville, Pa. \$30,000. Architects, Hauer & Mowere, Lebanon, Pa. Owners, School Board, East Greenville, Pa. Brick and stone trimmings, 2 stories, 80x120 feet, slate roofing, electric lighting. Plans in progress.

PENNSYLVANIA

Contracts Awarded

Factory (alt. and add.), Lebanon, Pa. \$15,000. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Herman Aukan, Lebanon, Pa. Brick, consists of additional toilet rooms and new fire tower. Contract awarded to Henry L. Brown, 1714 Sansom street, Philadelphia.

Bungalow, Brookline, Pa. Architect, A. B. Gill, 1655 North Fifty-sixth street, Philadelphia. Owner, William Huack, care of Architect. Hollow tile and plaster, 1½ stories, 32x36 feet, asbestos shingle roof, hot-water heating, electric lighting. Contract awarded to M. Roy Sheen, 450 North Wilton street, Philadelphia.

Residence, Norristown, Pa. \$15,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Lewis E. Taubel, Norristown, Pa. Stone, blue marble trimmings, 2½ stories, 44x40 feet, asbestos shingle or tile roof, hot-water heating, gas and electric lighting, tile and hardwood floors, leaded glass. Contract awarded to Jury & Son, Norristown, Pa.

Hotel (alt and add.), Fifth and Penn streets, Reading, Pa. \$40,000. Architect, private plans. Owner, Mansion House, on premises. Brick and stone, 5 stories, consists of new exterior and interior alterations, gas and electric lighting, tile and hardwood

floors, steam heating. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

School (add.), Norristown, Pa. Architect, Oliver Randolph Parry, 1723 Chestnut street, Philadelphia. Owner, Board of Education, Norristown, Pa. Brick, fireproof, 2 stories, tile roof, electric lighting, steam heating, consists of a 12-room addition. Lowest bid submitted by M. S. Lawler, Norristown, Pa.

School, Seventeenth and Catherine streets, Harrisburg, Pa. \$67,000. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Harrisburg, Pa. Brick and stone trimmings, composition roof, steam heating, electric lighting, 2 stories, 165x100 feet, combination, tile and concrete floors. Contract awarded to J. W. Emery, 1524 Sansom street, Philadelphia.

Manufacturing Building, near Fredericksburg, Pa. Architect, private plans. Owners, H. T. Atkins & Arthur J. Hoverter, Lebanon, Pa. Frame, 122x88 feet, slag roof. Contract awarded to George P. Speicher, Lebanon, Pa.

School, York, Pa. \$22,800. Architect, James H. McClymont, York, Pa. Owner, Board of Education, York, Pa. Brick, 2 stories, 64x87 feet, slate roof, hot-air heating, gas and electric lighting.

ing, Philadelphia. Owner, M. W. Newton, Eighth and Chestnut streets. Brick and plaster, 2½ stories, 30x60 feet, tile roof, hot-water heating, electric lighting, hardwood floors. Architect taking bids due April 22nd. F. L. Hoover & Sons, 1123 Cherry street; F. G. Myhlertz, 1737 Filbert street; Specht & Sperry, Heed Building, all of Philadelphia, and Hampton Bros., 4403 Atlantic avenue, Atlantic City, N. J.; Thompson Bros., 14 South Ohio avenue, and W. S. Higbee, 112 South Carolina avenue, both of Atlantic City, N. J., are figuring.

Bungalow, Ventnor, N. J. Architect, private plans. Owner, Charles Westing, 1315 Walnut street, Philadelphia. Plaster, 1 story, 30x60 feet, slate roof, gas and electric lighting, 3 bath rooms. Owner is taking bids.

School Building, Monroeville, N. J. \$14,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education of Upper Pittsgrove Township, Salem County, Monroeville, N. J. Brick, 2 stories, 40x62 feet, slag roof, electric lighting, maple floors (heating, separate contract). Sketches completed.

Residence (alt. and add.), Camden, N. J. \$3,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, name withheld. Brick, 3 stories, 20x80 feet, tin roof, hot-water heating, gas and electric lighting. Plans in progress. Architects will take bids in one month.

Custodian Cottage, Vineland, N. J. \$18,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, The Training School, Vineland, N. J. Brick and stone, 1 and 2 stories, 60x120 feet, slate roof, gas and electric lighting, composition and wood roofs. Plans in progress.

Residence, Collingswood, N. J. \$4,200. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Henry L. Goerlick, Jr., Collingswood, N. J. Hollow tile and plaster, 2½ stories, 24x36 feet, shingle roof, gas and electric lighting (heating, reserved). Architects taking bids due April 27th. The following are figuring: A. H. K. Doughty, Collingswood, N. J.; George W. Saner, Palmyra, N. J.; J. W. Hunter, 917 Penn street, Camden, N. J.

School Building, Pole Tavern, N. J. \$14,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education of Upper Pittsgrove Township, Salem County, Monroeville, N. J. Brick, 2 stories, 40x62 feet, slag roof, electric lighting, maple floors (heating, reserved). Plans completed. Bids in one week.

Bank, Swedesboro, N. J. \$20,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Swedesboro Trust Co., Swedesboro, N. J. Stone (marble front), 2 stories, 43x40 feet, slag roof, gas and electric lighting, tile and composition floors (heating, reserved). Architects taking bids due April 30th. The following are figuring: W. Beaumont, Stephen Girard Building, Phila.; Monaghan & Losse, 214 South Twelfth street, Phila.; F. Roe Searing, Perry Building, Phila.; Joseph B. Best, Woodbury, N. J.; L. S. Parks, Swedesboro, N. J.; D. E. Boyer & Co., 523½ Arch street, Camden, N. J.; Frank Turner, 838 Broadway, Camden, N. J.; William A. Lacy, Richwood, N. J.; H. H. Hankins, Bridgeton, N. J.; John Hunter, Swedesboro, N. J.

Office Building, 30 North Third street, Camden, N. J. \$6,000. Architects and Owners, Moffett & Stewart, Jessup Building, Camden, N. J. Brick and tile, 2 stories, 20x61 feet, slag roof, gas and electric lighting (heating, reserved). Architects taking bids. The following are figuring: Frank Turner, 828 Broadway, Camden, N. J.; D. E. Boyer Co., 523½ Arch street, Camden, N. J.; Charles L. Stewart, 779 Line street, Camden, N. J.; Poterson Construction Co., Clayton, N. J.

Residence (alt. and add.), Bridgeton, N. J. \$2,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J.

NEW JERSEY

Construction News

School Building, Medford, N. J. \$45,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, care of E. J. Garwood, Secretary, Medford, N. J. Brick, 2½ stories, slate roof, steam heating, electric lighting. Plans in progress. Architects will take bids in about one month.

Residence, Englewood Cliffs, N. J. \$30,000. Architect, Phineas E. Paist, 1613 Chestnut street, Philadelphia. Owner, Dr. Frederick M. Lawrence, New York City. Hollow tile and plaster, 2½ stories, 34x70 feet, tile roof, vapor vacuum heating, electric lighting, oak floors, concrete fireproof floors. Plans in progress. Sub-bids will probably be taken in one month.

School Building, Bargaintown, N. J. Architect, Bertram Ireland, Barlett Building, Atlantic City, N. J. Owner, Egg Harbor Township School board, Egg Harbor, N. J. Brick and limestone, 2 stories, 65x122 feet, slate roof, gas lighting, safety treads, metal lath, metal ceilings, separate bids on heating, hot-air gravity system or direct-indirect steam. Owners taking bids due April 24th. John W. Emery, 1524 Sansom street, Philadelphia, and Alexander Chambley, 243 South Tenth street, Philadelphia, are figuring.

Bank (remodeling), Third and Market streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Security Trust Co., on premises. Consists of remodeling of banking quarters on first floor, electric lighting, tile and marble work, bronze and mahogany bank fixtures. Plans in progress.

Nurses' Home, Atlantic City, N. J., \$20,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Atlantic City Hospital, care of A. M. Heston, 26 South Iowa avenue, Atlantic City, N. J. Brick, stone trimmings, 3 stories, slag roof, steam

heating, electric lighting. Owners taking bids due May 7th.

Residence, Trenton, N. J. \$7,000. Architect, C. W. Pette, 131 Jackson street, Trenton, N. J. Owner, James Lanne, Union street, Trenton, N. J. Brick, 2½ stories, 19x35 feet, slate and tin roof, hot-water heating, electric lighting, hardwood floors. Plans about completed. Architect will take bids in a few days.

Home Building, Bridgeton, N. J. Architect, H. L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, Benevolent Order of Elks, care James S. Ware, Chairman Building Committee, Bridgeton, N. J. Brick, 3 stories, 44x70 feet, slag roof, steam or hot-water heating, electric lighting.

Residence, Atlantic City, N. J. \$15,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, J. H. Carstairs, 254 South Third street. Brick, frame and plaster, 3 stories, 36x36 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Architect received bids April 15th.

Club House, Sumner, N. J. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Pine Valley Golf Club, care G. A. Crump, Merchantville, N. J. Brick, hollow tile and plaster, 2½ stories, 66x34 feet, shingle roof, maple floors (heating, electric work and metal lockers, reserved). Architect and owner received bids April 13th.

Public Comfort Station, Atlantic City, N. J. Architects, Stout & Reibenack, Bartlett Building, Atlantic City, N. J. Owner, Department of Public Works, Atlantic City, N. J. Concrete, 1 story, kalamein frames and sash, safety treads, metal sash, electric lighting, composition floors. Architects taking bids due April 16th. J. W. Emery, 1524 Sansom street, Philadelphia, is figuring.

Residences (2), Ventnor, N. J. Architects, Druckenmiller & Williams, Land Title Build-

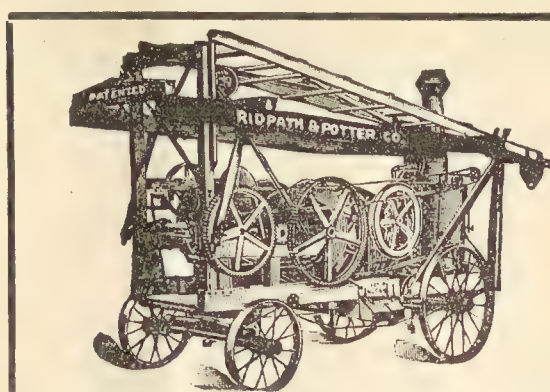
sup Building, Camden, N. J. Owner, William A. Logue, Bridgeton, N. J. Frame, 2 stories, shingle roof, gas and electric lighting, extension to heating system. Plans in progress. Architects will take bids in a few days.

Hotel (alt. and add.), Belmont avenue, Atlantic City, N. J. Architects, Berry & Shull, Humphreys Building, Atlantic City, N. J. Owner, Hotel Yarmouth, Charles P. Zazzali, on premises. Brick and concrete, 1 story, 65x43 feet, concrete roof, hot-water heating, gas and electric lighting, will contain sun parlor. Plans in progress.

Apartment House (alt. and add.), 519-21-23 Boardwalk, Atlantic City, N. J. \$10,000. Architect, Sward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, name withheld. Hollow tile and plaster, 3 stories, 65x75 feet, slag roof, hot-water heating, gas and electric lighting, tile boors. Architect ready for bids.

Apartment House, South Indiana avenue, Atlantic City, N. J. \$30,000. Architects, Berry & Shull, Humphreys Building, Atlantic City, N. J. Owner, J. F. Eilenberg, 122 South Indiana avenue, Atlantic City, N. J. Brick, stone trimmings, 3 stories, 42x148 feet, slag roof, hot-water heating, gas and electric lighting, tile work. Plans in progress. Architects will take bids in 10 days.

Twin Residences (5), Columbia avenue, Atlantic City, N. J. \$25,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, name withheld. Brick, stone trimmings, 2½ stories, 32x42



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Don't fail to see the New Model "STERLING" Convertible Builders' Level

When it comes to real practical value our 1914 MODEL No. 55 is in a class by itself! We make a variety of Transits and Levels ranging in price from \$50 up to \$500. Worth your while to call and examine them.

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NEW JERSEY

Contracts Awarded

Water Works and Pump House, Ancora, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Board of Freeholders, care of F. W. George, Court House, Camden, N. J. Brick and concrete, 1 story. Contract for pump house awarded to R. K. Lippincott, Stratford, N. J.; electric work, to Baird-Osterhout Co., 1114 Chestnut street, Philadelphia; wells, to Artesian Well

Drilling Co., Real Estate Trust Building, Philadelphia; water works system, to Condon & Patten, Haddon Heights, N. J.

Church, Trenton, N. J. Architect, R. A. Schumann, Trenton, N. J. Owner, St. Mary's R. C. Church, Trenton, N. J. Stone, fireproof, 1 story, 66x126 feet, slate roof, wire lath (heating and lighting, reserved). Contract awarded to Burton & Burton, American Mechanics' Building, Trenton.

Miscellaneous Construction News

Y. M. C. A., Roanoke, Va. Architects, Jalade & Miller, New York and Roanoke, Va. Owners, Y. M. C. A., Roanoke, Va. Brick, fireproof, 4 stories, 98x108 feet, slag roof (heat and light, reserved), composition floors, water-proofing, kalamein doors, metal lath, steel rolling shutters. Architects taking bids due April 21st. Roydhouse-Arey Co., Fidelity Building, and J. H. Wells, Heed Building, Philadelphia, are figuring.

Animal House, Washington, D. C. Architect, Oscar Wenderoth, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick, 2 stories and basement, 59x69 feet, slag roof, steam heating, electric lighting. Owners taking bids due May 2nd. J. W. Emery, 1524 Sanson street, and J. E. & A. L. Pennock, Land Title Building, are figuring.

Restaurant Building, 106 West Forty-third street, New York City. Architects, Stuckert & Sloan, Crozer Building, Philadelphia. Owners, Horn & Hardart Co., 1559 Broadway, New York City. Brick, terra cotta and concrete, fireproof, slag roof, steam heating, electric lighting. Contract awarded to J. H. Deeves & Bros., 103 Park avenue, New York City.

Post Office, New Rochelle, N. Y. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States

Government, Treasury Department, Washington, D. C. Stone, brick, terra cotta and steel, fireproof, 2 stories, composition roof, electric lighting, steam heating. Owners taking bids due May 16th, 3 P. M. Wells Construction Co., Witherspoon Building, Philadelphia, is figuring.

Post Office, Hampton, V. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone and brick, 2 stories, first floor fireproof, composition roof, steam heating, electric lighting. Owners taking bids due May 9th, at 3 P. M.

Post Office, Moundsville, W. Va. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick, stone and steel, fireproof, 2 stories, composition roof, steam heating, electric lighting. Owners taking bids due May 14th, at 3 P. M.

Post Office, Shelbyville, Tenn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and steel, fireproof, 1 story, steam heating, electric lighting. Owners taking bids due May 4th, at 3 P. M.

A PROBLEM SOLVED.

A great problem has been solved in Saums Preservative for wood and for concrete. This scientific preparation really shows by actual demonstration that it preserves wood and prevents dry rot, warping and wear. Wood, old or new, treated with Saums' Preservative, is proof against the ravages of the elements, and it resists the gruelling test of sea-shore atmosphere. Floors treated with this remarkable material are proof against splintering, and it has been shown by actual test that buckled boards will return to the even level of a newly-laid floor. It is absolutely permanent and cannot be scrubbed or scraped from wood as it penetrates from a quarter to a half inch below the surface.

This efficient substance is equally good in residences and factories, for ballroom or kitchen, and for use in stables and garages. In an apartment house in Philadelphia a cheap grade of yellow pine was used for flooring, and treated with Saums' Preservative, showing a saving of considerable sum of money. It makes wood acid-resisting, water-resisting, and ordinary wear and tear seems to have no effect upon it whatever. It is not intended as a substitute for paint—nor is it like paint. It is not used in place of varnish or shellac, but it presents almost as fine a finish as either. It is frankly a preservative for wood and for concrete—but one will not take the place of the other. Each is intended only for the preservation of the material designated.

The concrete preservative is the same in physical characteristics as Saums' Preservative for wood. It is distinguished by the same penetrative power and the same advantages of weather proofing, acid resistance and water-resistance. It makes a concrete floor (or other surface) as hard and firm as granite. It prevents and stops disintegration and dusting. It closes the pores and makes the surface proof against the hard wear of horses' shoes, of heavy trucks and steel-shod wheels.

Saums Preservative will actually stop the spread of damaged spots in a floor and make the place harder and firmer than the remainder of the floor unless it is also treated.

It has been successfully used even in swimming pools, stopping leaks and putting them in first-class condition.

Here the building trades and the architectural and engineering professions have a boon. It is evidently a wonderful preparation, and bids fair to become as great a factor in building as wood and concrete—the value of which it enhances as building materials.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

W. S. Bauer (O), 642 Lincoln Drive. Cost, \$12,000. Two dwellings, stone, 3 stories, 29x32 feet, Germantown. Cost, \$19,500. Three dwellings.

F. H. Davis (O), Thirteenth street and Nedro avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 27x42 feet, Hutchinson street and Nedro avenue.

Charles Land (O), 7333 J street. M. Stevens (C), 927 Magee street. Cost, \$4,000. Residence, brick, 2 stories, 16x64 feet, Princeton street and Rising Sun lane.

R. Cameron (O), 5328 Tacony street. G. W. Croskey (C), 2264 Bridge street. Cost, \$3,800. Two dwellings, brick, 2 stories, 16x40 feet, 2263 James street.

H. P. Schneider (O), 3713 Old York road. Cost, \$3,000. One store and dwelling, brick, 3 stories, 16x52 feet, Thirteenth and Courtland street. Cost, \$48,000. Twenty-four dwellings, 3713 Old York road.

M. Stern (O), 4081 Market street. Cost, \$4,500. Store and dwelling, brick, 2 stories, 16x32 feet, 4146 Market street.

S. Goldman (O), Orianna and South streets. J. Gorchov (C), 317 Reed street. Cost, \$6,300. Store and dwelling, brick, 3 stories, 17x66 feet, Orianna and South streets.

John Jamison (O), 2581 Huntingdon street. Cost, \$6,000. Dwelling, brick, 2 stories, 14x30 feet, Miller and Oakdale streets. Cost, \$4,000. Two dwellings. Cost, \$1,000. One dwelling.

M. H. Riegel, 5513 North Second street. Cost, \$10,000. Five dwellings, brick, 2 stories, 16x47 feet, 111 to 119 Wentz street.

W. R. Farrell (O), Eighty-ninth street and Lissner avenue. R. R. Heath, Sixty-seventh street and Ashwood avenue. Cost, \$1,500. One dwelling, brick, 2 stories, 16x36 feet, Eighty-eighth and Vance streets.

H. Russell (O), 143 Olney street. Cost, \$10,000. Four dwellings, brick, 2 stories, 16x53 feet, Front street and Olney avenue.

J. P. Leonard (O), 812 North Twenty-seventh street. Cost, \$13,200. Twelve dwellings, brick, 2 stories, 15x51 feet, Ringgold and Reed streets. Cost, \$13,200. Twelve dwellings. Cost, \$2,400. One dwelling.

J. C. Enburg (O), 5900 Ellsworth street. Cost, \$14,000. Seven dwellings, brick, 2 stories, 15x27 feet, Fifty-sixth street and Larchwood avenue. Cost, \$31,500. Fifteen dwellings. Cost, \$4,200. Two dwellings. Cost, \$40,000. Twenty dwellings.

Nellie Hargrave (O), 6101 Torresdale avenue. L. Deitrich (C), 3016 Comley street. Cost, \$2,700. One store and dwelling, brick, 2 stories, 15x48 feet, Torresdale avenue and Benner street. Cost, \$3,500. One store and dwelling.

Morris Rosen (O), 2009 South Eleventh street. Louis Siegel (C), 8405 Eastwick avenue. Cost, \$7,500. Five dwellings, brick, 2 stories, 16x40 feet, Eighty-fourth street and Fairview avenue.

James Stewart (O), 215 Monastery avenue. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x44 feet, 345 Knox avenue.

S. Stibbs (O), 128 Courtland street. Cost, \$2,200. Two dwellings, brick, 2 stories, 14x36 feet, Lawndale and Deveraux streets.

W. J. Mitchell (O), Seventy-seventh street and Lyons avenue. Cost, \$2,200. One dwelling, brick, 2 stories, 16x50 feet, Seventy-seventh street and Lyons avenue.

Klemann & Zorochoff (O), 2014 South Eighth street. Cost, \$20,000. Ten dwellings, brick, 2 stories, 14x30 feet, Edgemont and Ontario streets. Cost, \$17,000. Ten dwellings. Cost, \$6,000. Store and dwellings. Cost, \$11,000. Five dwellings.

J. T. Baily & Co. (O), Water and Tasker streets. Stacy Reeves & Sons Co. (C), 2011 Market street. Cost, \$30,000. Manufacturing building, Water and Tasker streets.

George Shissler (O), 2300 South Eleventh street. Cost, \$1,000. Store and dwelling, brick, 2 stories, 15x37 feet. Cost, \$31,200. Twenty-six dwellings. Cost, \$1,500. Store and dwelling, Hutchinson and Shunk streets.

Mrs. K. Kenney (O), 6324 Montague street. David Paul (C), 2454 North Howard street. Cost, \$1,000. Store and dwelling, brick, 2 stories, 16x40 feet, Comly and Walker streets.

A. H. Bexk (O), 4035 Old York road. R. W. Shuster (C), Germantown and Hunting Park avenues. Cost, \$12,000. Factory, brick, 2 stories, 20x85 feet, Second street and Erie avenue.

B. W. Garrett (O), 4046 Powelton avenue. Cost, \$6,000. Two dwellings, brick, 3 stories, 16x46 feet, Fortieth street and Powelton avenue.

A. C. Schacer (O), 4621 Frankford avenue. Cassidy Bros. (C), Frankford, Philadelphia. Cost, \$15,300. Nine dwellings, brick, 2 stories, 14x30 feet, 6121 to 39 Torresdale avenue.

C. E. Rees (O), 2017 East Clearfield street. Cost, \$1,500. One dwelling, brick, 2 stories, 16x34 feet, Cottage and Comly streets.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—“Onlooker.”

The way to get money is to sell things to people who want things. People who want building material and building devices read “The Guide.”

An advertisement should stick out like a sore thumb without being so sensitive.—“Novelty News.”

Alterations and Additions

I. Seidman (O), 1324 South Fourth street. Cost, \$2,400. Dwelling, 2428 South Seventh street.

J. Elkish (O), Juniper and Cherry streets. H. Keusswick (C), 137 South Tenth street. Cost, \$2,000. Manufacturing, 1314 Vine street.

D. Bader (O), 5594 Chester avenue. Parkan Bros. (C), 607 Wharton street. Cost, \$1,000. Store and dwelling, 5598 Chester avenue.

C. O. Strouse & Son (O), Walnut lane, Germantown. Cost, \$12,000. Factory, Fox and Juniata streets.

Girard Trust Co. (O), Broad and Chestnut streets. Wistar Int. (C), Thirty-sixth street and Woodland avenue. Cost, \$4,000. Laboratory, Thirty-seventh street and Woodland avenue.

Sisters of St. Joseph (O), Chestnut Hill, Pa. W. H. Doyle (C), Berwyn, Pa. Cost, \$6,000. Wall, Germantown avenue and County Line.

General Auto Transit Co. (O), Broad and Wood streets. G. P. Pawling Co. (C), Broad and Vine streets. Cost, \$2,000. Garage, Broad and Wood streets.

M. Morgenstein (C), 2908 Kensington avenue. S. Berger (C), 416 Queen street. Cost, \$2,900. Store and dwelling, 2908 Kensington avenue.

A. Payvusky (O), 2643 Germantown avenue. F. I. Wintz (C), 1618 North Twenty-seventh street. Cost, \$2,500. Store and dwelling, 2643 Germantown avenue.

Benjamin Linker (O), Heed Building. Cost, \$4,000. Store and manufacturing building, 806 Cherry street.

J. B. Stetson Co. (O), Fifth street and Montgomery avenue. Cost, \$3,500. Fire Tower, Germantown and Montgomery avenues.

E. L. Tustin (O), Church and Lancaster roads. M. W. Young (C), Overbrook, Pa. Cost, \$1,600. Garage, Church and Lancaster roads.

L. T. Cohen (O), 822 North Second street. S. Kohn (C), 1103 North Fortieth street. Cost, \$1,000. Theatre, Third and Cambridge streets.

D. Cohen (O), 1106 Fairmount avenue. L. M. Shectack (C), 322 Dickinson street. Cost, \$1,000. Store and dwelling, 943 South Fifth street.

I. Cohen (O), 321 South Fifth street. B. Bornstein (C), 412 South Fifth street. Cost, \$6,000. Store and apartments, 321 South Fifth street.

Hillcrest Apartments (O), Thirty-fourth and Race streets. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$2,000. Apartments, Thirty-fourth and Race streets.

Rev. E. Prendegast (O), Eighteenth and Race streets. Melody & Keating (C), Bailey Building. Cost, \$39,000. Church, Westmoreland and G streets.

G. Waldman (O), Eighty-sixth and Johnson streets. E. A. Heffner (C), 6354 Jefferson street. Cost, \$2,200. Shop, Eighty-sixth and Johnson streets.

“Noah filled the ark,” says an exchange, “without advertising.”

Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us, for 40 days and 40 nights.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—“Printer's Ink.”

THE FIRE INSURANCE OF AN OFFICE BUILDING

By EDW. R. HARDY

Assistant Manager New York Fire Insurance Exchange

[The article here reprinted, from "The New York Real Estate Record and Builders' Guide," is one of the clearest and most entertaining presentations of the insurance problem,—as it relates to the skyscraper,—that we have happened upon in a long time. It is eminently worth reading, its dominant note being the strong, practical common-sense point of view with which it regards questions too often theoretically glossed over.]

When one considers the payment which the insured may receive for his fire premium, the cost of fire insurance in the modern fireproof office building is the least of the overhead charges.

What is, from the insurance standpoint, an office building. We mean the modern steel structure and not the non-fireproof building. This is now the established type for office purposes, not merely in the local territory, but all over the United States. There are very few buildings, even in New York City, scarcely one north of Chambers street, that can be filled with tenants whose occupancy may be classed as that for office purposes. In a great majority of these structures there is a certain proportion of sample stock tenants, and a business occupancy of stores, at least on the first floor and usually the basement and first. In the development of any live business it becomes necessary, from time to time, to revise the definitions and readjust the classes which the definitions cover.

Definition of an Office Building.

For many years a building of this type was considered an office building if it conformed to the following definition: "Office building includes partial occupancy by sample stocks or small restaurants or grade floor stocks whose first column charge is not less than 15 per cent. (that is, .15 or less)." This definition is general, and permitted more or less leeway on the part of the one whose duty it was to decide whether a building fell within the office class or not. After an experience of about ten years a somewhat more elastic, and yet at the same time more clearly defined rule was adopted, and the one in force at the present time reads as follows:

(A) Any building of fireproof construction occupied on the grade floor or below grade by a tenant or tenants whose first column charges do not exceed .15 will be entitled to full allowance for office occupancy of the occupancy above grade conforms to the conditions set forth in Item C.

(B) Any building of fireproof construction occupied on the grade floor or below grade by a tenant or tenants whose first column charge exceeds .15 will be entitled to

allowance for office occupancy above grade if the occupancy above grade conforms to the conditions set forth in Item C.

(C) In order that a building may be entitled to full occupancy allowance or office occupancy allowance above grade as set forth in A and B, the occupancy above grade other than strictly office occupancy must be limited as follows:

There may be a partial occupancy by tenants with sample stocks, or a small restaurant, or a club, or other tenants whose first column charge does not exceed .10, but no such tenant other than restaurant or club shall occupy more than 2,500 square feet of undivided floor area; nor shall such tenants other than restaurant or club collectively occupy more than 5 per cent of the floor space above grade.

A tenant with a stock of jewelry shall be considered the same as an office tenant.

(D) The Rate Committee shall have the power to provide for special conditions which may arise where it is proposed to segregate and protect a particular hazard higher than that provided for in "C," such segregation and protection to be approved by the committee:

While the above rule is the one in force in local territory, it probably is not far from covering the general conditions in the United States. To most of the readers familiar with such properties the definition will be clear with the exception possibly, to many of the reference to the first column charges. A word of explanation may be advisable. The hazard which a tenant may bring to a building by his business is covered in the modern schedule by two charges. The first of these, usually much smaller than the second, is known as the "hazard charge," and that is the charge made against the building by the tenant in question. The second column charge, as it is commonly called, is intended to measure the susceptibility to damage of the tenant's own stock, and may bear no relation whatever to the rate of insurance on the building or to the rate of the contents of any other tenant. It is intended to measure susceptibility and not hazard. It will be noted that a building may remain in the office class provided that below the first floor there is no tenant with a hazard charge greater than 15 per cent., while above grade there may be the usual club or restaurant, and a certain proportion of the space occupied by sample stocks. Should the property exceed these limitations, it passes into the class of mercantile properties and is so rated.

Insurance on Contents.

The insurance on the contents of an office building of the type we are considering, so far as the strictly office tenants or even sam-

ple tenants are concerned, is usually a matter of minor consideration. If any insurance at all is carried in such cases it is usually so small an amount that the premium involved is not a matter of serious consideration to the tenant. Large lines may be involved below the second floor where stock conditions prevail.

The rate of insurance on the building appears usually to be of more consideration to the parties in interest than the rate on the contents, but it should be emphasized that as the basis for the tenant's rate is the structural conditions of the building, it follows that the nearer the building approaches standard conditions so much lower will the rate be for the tenant.

As an instance of the wide range in the rate of insurance on these properties, the rate to-day on one of the earliest buildings erected of this type is 316 per cent. for each \$100, while on a building of the same height and class the minimum rate of 5 per cent. is secured. In the latter case the parties have built according to schedules, so to speak, having done everything they could to secure the minimum rate.

Effects of Good or Bad Construction.

The rates covering office furniture and fixtures in these two properties make an interesting comparison and show the effect of good or bad construction.

In the first or higher rated building the rate for offices runs from the 5th to the 11th floor as follows:

5th.....	.881
6th.....	.915
7th.....	.948
8th.....	.981
9th.....	1.017
10th.....	1.054
11th.....	1.09

In the lower rated building the rates are:

5th.....	.309
6th.....	.342
7th.....	.376
8th.....	.409
9th.....	.443
10th.....	.476
11th.....	.51

The first building is only eleven stories high, and the second building is fifteen stories high, with a rate for office furniture of .644, which is less than the rate on the fifth floor in the first named building, although height is an important factor in problems of fire insurance. While the statement has been made that values in office furniture and fixtures are usually small, in many cases they run to a goodly sum, and some of the sharpest arguments concerning the insurance rate have been carried on over the rate on furniture and fixtures in buildings of fireproof construction.

The principal factors taken into consideration in determining the insurance rate, fall under the following items: The key or basic rate of the city; the walls; unprotected metal members height; floor; type of arch; floor openings; skylights; width of street; unprotected stone piers, columns, etc. All of these

(Continued on page 246)

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Editorial Comment

The subject is Japanese interior decoration. "There are spaces, broad and quiet," observes the writer, "there are colors dull and subdued, yet rich and interesting—little furniture is wanted, and ornaments are few but carefully selected. There seems no need of a picture upon a wall of resful gray or dull gold, delicately decorated with graceful flowers, or charming landscapes. Upon a plain wall surface, one rare kakemono may hang alone and entirely sufficient. Jarring or violent incident outside cannot enter through the windows, for these are screened with creamy, semi-opaque rice paper and a light teakwood lattice. There is an exclusion, a subtle sense of aloofness and serenity which must be experienced to be fully understood. A single rare bit of bronze or cloisonne or porcelain may grace a simple stand or niche, for the Japanese does not tire himself or his friends by displaying constantly a great collection of such precious things. Even a slight acquaintance with the subtlety and refinement of Japanese art will go far in cultivating, if only partially, some understanding of the reasons why the Japanese have developed a type of interior decoration unequalled in sheer qualities of finesse by the art of any other nation. 'For refinement, reserve, subtle color and perfection of artistic composition, I know of few things,' says Mr. Ralph Adams Cram, 'to compare with the interior of a Japanese home.' "

* * *

All great art, certainly all notable art,—all art worth while,—bears among its distinctions this quality of reserve. Restraint is indeed the one dominant quality in the use of which the master looms above the plodder. Finest among the fine arts is the fine art of repression. To seize the idea at its psychic best, to depict it with a few brilliant strokes, to know when the right visualization has been attained and how much may be left to the imagination—that is art! It is art at art's best. The Japanese interior wakens enthusiasm because in an age vulgar and ostentatious beyond the wildest of its predecessors it—the Japanese idea—sounds the note of restraint,—the note of repression,—the note of artfully conceived reserve, serenity, restfulness and charm. We recall a visit made not long since to a much admired room in a great modern hotel "Ravishing!" said one. "Stunning!" said another. "Fairy-like!" quoth a third. Wisely, we contrived to say nothing. The room was hateful, jarring, overdone, cacophonous down to the smallest detail. It was a shrieking, crashing symphony in dissonances—as flashy as a painted woman; about as restful to the senses as a circus parade in August.

To be sure, all this has little to do with architecture. And yet—in architecture as in the allied arts reserve has a place. Learn then, Mr. Aspiring Christopher Wren of the

years to come, the value of reserve. Try to remember that the greatest effects are usually the simplest—that elaboration is not always art, and that grace and charm, poise, and that subtle quality men call distinction, are the handmaidens of proportion, of line, of atmosphere and of suggestion rather than of the complex, the intricate and the overwrought. Think of the Japanese interior with its air of ordered artlessness, its unstudied virtuosity, its soothing appeal and bland rejection of the gaudy, the innutile and the non-essential.

* * *

A New Orleans architect, Mr. William Schultz, has some excellent if homely advice to offer that not inconsiderable element among home builders which still affect to regard the ready-made plan as an economy.

"There comes a time in almost every successful man's life," writes Mr. Schultz, "when after profitably manipulating his biggest deal or accumulating a fat bank account by persistent and consistent saving, he lays back in his easy chair and sees through the rings of smoke from his jimmy pipe the picture of his future home—the home that is to be his very own.

"After deciding to build one must have suggestions as to what he wants, for although we live in houses every day of our lives, and see what is good and what is bad in their planning, the very familiarity breeds contempt and often the things we most often meet are least noticed. There are houses and houses, and all intended to serve the varying purposes of the varied occupants. He must find out just what house is most suited to his needs. Building decided upon, the family rummage through all the old copies of the 'Ladies' Home Journal' and the 'Woman's Home Companion'—household oracles. Single stories, two stories, houses large and houses small, houses good and houses bad introduce themselves in all the catchy, tawdry array of glowing description and nicely colored illustrations, with landscape gardening to match. Passing the news stand a 'house book' fresh from the press catches the intending owner's eye. He dives into the store and the book changes owners.

* * *

"The family burn the midnight oil studying the latest addition to their library. Its promises are seductive. One of the most attractive is: 'A beautiful eight-room cottage, of first-class materials, with all modern improvements, including hot air or steam heating, which has been actually constructed for \$2,500. Blue prints, typewritten specifications and bill of materials complete for \$5.00.' They have struck the trail. This is just what they want.

"Hundreds of such 'bargains' can be found in the 'house books' that are scattered over the country. Experience proves to the bar-

gain seekers that the stated cost of these houses is purposely underestimated to get a ready sale for the stock plans. But, like most experience, it comes too late. Says one of the cut raters: 'Our plans are much more carefully drawn than the plans provided by the average architect who charges from \$100 to \$200 for his services, ours being accurate and correct in detail. The cost of the original tracings, the writing of the original specifications, is from \$100 to \$200; varying according to the size and style of the house.' These statements can be challenged. Nearly all stock plans are the work of junior draftsmen or apprentices, often miserably drawn, turned out in much the same manner as sausage is ground out of a sausage machine and with about as much concern for architectural qualities and the owner's comfort.

* * *

'Any' reputable architect who charges for his services the prices mentioned by our contemporaries, gives not only his best efforts to the planning and design of each individual house, but his personal supervision to their construction. According to the system proposed by the job-lotters either the owner must know something about building methods or supervision must otherwise be conspicuous by its absence.

'There are hundreds of dissatisfied home owners who wish when they built they had employed an architect to look after their work. Accuracy is the supervisor's watchword. He sees that no defective materials go into the building, that all fulfills the terms of the specifications, that the workmanship is good; in short, that the owner gets what he is paying for. By this method such nuisances as leaky roofs, defective plumbing, smoky chimneys and premature deterioration are avoided. Suppose, for instance, a porch flooring inferior to the grade specified is used—and it can be easily done by an unscrupulous builder, few persons knowing anything about lumber—this would mean several years shortening of the life of the floor. Paint can be 'doped' with whitening to save material, and a building so treated requires repainting two or three years sooner than it would with a good job of work.

* * *

'A stock plan seldom meets expectations. Alterations are always necessary, and often the owner is compelled to turn the whole matter over to a legitimate architect for reworking of the plans.

'There are many stock plans published. The best are from California. But the California house is hardly adaptable to the less sunny climes of other parts of the United States. The main objection is that they are mostly of the low type which must be covered with composition roofing; this is far from being ideal where rains are frequent because it is difficult to make them absolutely water tight. Los Angeles can employ them with impunity because there the rainfall during the whole year is scarcely enough to moisten the ground. The room sizes and general dimensions of these houses are somewhat scantier than is considered good practice for perm-

anent dwellings. Still the California bungalow teaches designers valuable lessons in charming originality of exterior and economy and compactness of planning. There are numerous examples of clever adaptation of them to other localities. But they must be adapted, and it takes your local architect to do it.

* * *

'Stock designs from the north and east as a rule fall short of excellence. While cleverness is often exhibited in interior planning, the elevation is but too often a repetition or some phase or other of the perishing Queen Anne cottage, elsewhere termed the 'genteel' style. Its abortions are many. Wriggles, twists, squirms and all kinds of acrobatics cavort on its wall surfaces, and many of them would serve as apt models for the candied gingerbread of quaint old Nuremberg.

'Now a word about the 'architect who charges from \$100 to \$200 for his services.' He has a knowledge of your needs. He knows because he has studied them and everything else concerning his profession. His incentive is love of his work; his reward is his client's satisfaction. The product of his pencil is accurate and reliable, not tinged with commercialism, but finished with the touch that only certain knowledge and artistic instinct can give. His recommendation is the healthfulness and attractiveness of the homes he has produced—their occupants' comfort. And all this for the enormous sum of about one month's salary of the contented beneficiary!'

* * *

Mr. Frederick L. Ackerman, A. I. A., explains in his paper on 'Present Unfortunate Conditions of Practice and the Remedy' ('Journal of American Institute of Architects') that the task of the architect is twofold. 'As architects and as artists our duty is to formalize and to express in material form the activities and thought of our day. This we do quite unconsciously in our offices, and our achievements there are an exact measure of our individual ability and the limitation set by the people in their laws and ordinances. No amount of inspiration, no degree of talent, will carry us beyond a simple expression of the demands and desires of the people, and the limits set by them in the laws and ordinances which stand as the principal factors in our progress.

'As citizens, our duty is to provide the conditions for a better architecture. Our knowledge of the arts, the logical nature of our training, and our attitude of mind towards such problems entitle us to the position of directing the forces which are at hand. We know the nature, the importance, and the necessity of the laws needed. We also know better than the people why these laws cannot be passed, for we have tried and failed.

'Our task, therefore, if we are to spend our time and effort in other than a useless endeavor, is to explain to the people by every honorable means within our power, and in terms of logic and common sense, the simple nature of our ideals, to the end that all shall come to understand and realize that idealism

of the architect and the desires of the people for a habitable city are but the same thing.'

* * *

We trust every architect who gets the 'Guide' will take the time to read carefully the article in this number presenting the craftsman's side of the controversy inaugurated by Mr. Ralph Adams Cram regarding poor and inferior craftsmanship. This article, from the pen of a widely known local craftsman, should go a long ways to convince the average architect that considerable room exists for improvement in the present manner of arranging for work of the kind and that in the vast majority of cases the niggardliness of the owner, the utter inadequacy of the specification or a certain systematic pruning of the allotment for this class of work is as much to blame as any real or fancied deficiencies on the part of the craftsman. The finer grades of craft work make exorbitant demands upon the time, the talents and the patience of men with capability in this field. To attempt to exact the attainable best under the commercial conditions which usually obtain in contracts of the kind savors of a somewhat exasperating order of folly. The wit who said that art could not be measured with a yard stick, stated the case about as concisely as it is possible to put it. In craftsmanship as in architecture, the dreamer's best is not called forth by a cheese-paring distribution of the awards. And be pleased to remember, ye who hold the purse-strings over projects depending for their ultimate success upon a fixed standard of artistic achievement, that no true work of art has ever found its way to the world save from the brain of a dreamer. The man who dreams, be his medium the palette, the drawing board, the modelling clay or the chisel—is the man to whom the prosaic world of drab realities must continue to look for those spiritualized conceptions which for lack of a better name we call works of genius.

LETTERS TO THE EDITOR.

Values 'The Guide.'

Editor 'The Builders' Guide,' Philad'a.

Dear Sir: There appeared in the issue of March 11th, of 'The Builders' Guide,' an article I wished to preserve. I find that this particular copy has been loaned to someone outside the office and no one can remember who got it.

If you can send me another paper for that date I will appreciate it.

Let me take this opportunity of saying how much I value 'The Guide' as a weekly visitor.

Yours very truly,

ALEXANDER F. SMITH.

Architect, Baer Building, Reading, Pa.

That 'Architects' Trust' Bugaboo.

Editor 'Builders' Guide:'

Dear Sir: Having noted in reading your very interesting paper that you seem to have a healthy sense of humor, I venture, there-

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fore, to enclose a letter which I recently received. Here we see approaching another corpulent figure to join the ever-increasing crowd of highbinders.

Yours truly,
R. WODROW SNYDER.

Architect, Scranton, Pa.

"Mr. Robert W. Snyder,
Scranton, Pa.:

Dear Sir: We have secured an architect for our Y. M. C. A. Building and do not expect to enter into competitive bidding, which generally involves controversy with the architects' trust, of which I know one controversy that comes up this next Saturday over a city building that I have somewhat to do with the erection of. So I do not want another fuss on my hands.

Very truly yours,
E. ALLEY, President.

Second Nat'l Bank, Cortland, N. Y.

[Editor's Note:—President Alley is needlessly alarmed. That Architect Trust talk is sheer tommy-rot. We are, indeed, surprised that President Alley should make such an Alleygation. If we had the time we could make a joke out of this.]

THE FIRE INSURANCE OF AN OFFICE BUILDING

(Continued from page 243)

items may, under proper guidance, be so taken care of with the exception of the height basis and width of street, as to make no change in the rate of insurance. We have learned how to protect the metal members in our fireproof buildings, but a large advance is still to be made in the floor openings.

In addition to the above items the building is affected by a hazard charge which some tenant may make. This has been discussed above. Also the exposure on the property is a serious factor, or it may be if

the surrounding conditions are principally of the old high-rated type of properties.

Reductions.

The reductions which apply in the computation of the rate, cover such items as fireproof floor surfaces; metal trim; standpipes; the office occupancy conditions; watchman service; auxiliary private fire plant, and fire pails. There are many properties which are receiving the maximum allowance under all of these items, and as they amount in the aggregate to more than 60 per cent. of the charges made at the points where the reductions are allowed, they should be carefully considered by the parties in interest.

The exposure charge on buildings of this type is becoming of less moment, due to the fact that they tend to mass themselves in that portion of the city where the older types of buildings are passing away. In other words, they are exposed largely by fireproof structures and the exposure is based on the generally low rates prevailing on this type of risk. As an actual instance the new Equitable Building will be surrounded by fireproof buildings in the office occupancy class.

The fireproof building in its earlier erection was over-estimated, and many inferior types were deemed unassailable by fire. Experience proved the contrary, though until the Baltimore fire, 1904, the office structures were not severely tested. The same lesson was two years later in San Francisco fire of 1906 driven home once more.

While these structures come through conflagration and even severe fires with the steel members and the walls usually in fair condition, the destruction otherwise is quite complete, and as the equipment and finish form a large part of the cost, the insurance loss on such properties is found to be very heavy.

Wired-Glass Windows.

Many attempts have been made to secure wired glass in properties of the type of construction which we are discussing. Where the exposure is somewhat severe, it is now usually possible to secure this type of glass which makes an excellent fire retardant, but there exists a very strong feeling in insurance circles that if these buildings could have not merely where the exposure seems to make it advisable but throughout their entire exterior walls, wired glass in place of the usual kind, that the advantage would be of mutual benefit to the owners of the property and the insuring interest.

It must be understood that the more nearly a fireproof building attains to a high standard as to cut-offs and interior construction, so much more does it make of each floor a condition equivalent to a furnace; but if the walls of this furnace are in good part of ordinary glass, they will yield very readily to a fire in any floor; and the flames, on reaching the floor above will spread the fire in that manner. We have, in other words, a condition of floor openings, so to speak, on the outside of a building, although the greatest care may have been exercised in guarding

the uoor openings on the inside.

Objections are raised, usually by the real estate interests and frequently, we understand, by the tenants to having wired glass in the windows because, as it was expressed by one tenant, it "made him feel like looking through a chicken coop." In all probability this is more a state of mind than a state of fact. In due course we rather expect to see this view of the matter pass away and the wired-glass window come into its own. In an effort to introduce this feature in these buildings special concessions have been made in the rate of insurance, but the only building which is qualified in this city, and perhaps the only one in the world, is a building just completed, known as the Walker-Lispenard telephone property.

Two points in closing:

First, the insurance interests at all times are willing to co-operate with any prospective builder in an effort to secure the lowest rate of insurance on a given piece of property. This advice or assistance is available without money or obligation. It should be availed of more freely than it is. Many an error would be avoided if this were done.

Second, the rate of insurance cannot be made frequently to pay the carrying charges on the additional cost of some device or type of construction which the parties may wish to adopt. It is all too frequently overlooked that in the use of one material for another in buildings of this class, the difference in investment cost cannot be in the very nature of things made up by the difference in the cost of insurance. Concretely expressed, assume that there is a building with insurable value of \$1,000,000, with a rate (as the building is first planned) of .10. Such properties carry the full rate for the first year, and if written for a longer period than three years they take two and one-half times the annual rate. Therefore, on this property the cost of \$1,000,000 insurance for three years would be \$2,5000. This rate for the privilege, it will be noted, is slightly less than one-tenth of one per cent. on each \$100 of insurance. The minimum rate would be one-half of that sum, or \$1,250, for the period. The remaining \$1,250 then might be considered as the return from an investment standpoint of some form of construction or device which might be used in the property. \$1,250 is a 4 per cent. return on approximately \$30,000.

It can readily be seen, therefore, that if the substitution of metal trim for wooden trim, for instance, would cost \$60,000 more, then the parties must not expect to find in the reduced rate of insurance the full return on their investment. It can contribute a part toward it, but only a part. It all too frequently is the case that the parties overlook the fact that they have in the building a better investment where the higher type of construction is used than where the lower type is used. This must be given equal consideration, with the reduction in the rate of insurance in estimating the investment value of the superior type of construction or device.

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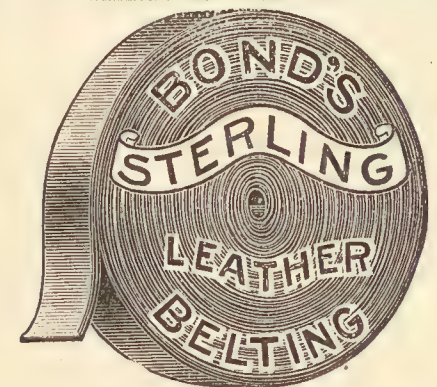
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AS THE CRAFTSMAN SEES IT

Mr. Ralph Adams Cram's address at the Convention of the American Federation of Arts brings a sharp rejoinder. The blame for poor work placed where it belongs—upon lightly-drawn specifications and the absurd American System of Competitive Bidding. Economic Side of the Question.—By "A Craftsman."

Editor of "The Builders' Guide:"

Referring to your resume of Mr. Ralph Adams Cram's address before the Fourth Annual Convention of the American Federation of Arts, it is to be regretted that you did not find space to print the address in full, for there much in it of general interest.

There are, however, certain conclusions of Mr. Cram to which the self-respecting craftsman must take exception.

It is an easy matter to lambaste the craftsman, to say "his carving is butchered," and "his stained glass defiant of every law of God, man or architect." But in the language of the street, now that you have him, what are you going to do with him.

Did it ever occur to Mr. Cram that the "butchered carving," the "commercial metal work" and the stupid stained glass may all be traced to the architect's specification? And from the architect's specification back to its original source, the revenue producing demands of a commercial age.

Those of us who examine a hundred specifications in the course of a year, know that the matter is largely an economic question.

How often do we find allowances totally inadequate for the proper execution of good, artistic, craftsman-like work. Industrial art schools and more vocational training are commended. So are civic centres and public works, conducted under competent and intelligent art commissions. These are considerations relating to the educational aspect of the case. What about the economic side of the question?

The majority will continue to compete for work under a system that recognizes the lowest bidder and asks few questions as to his artistic ability to produce the work. I am one of those who maintain that all craftsmanship produced under the influence of competition such as we have to-day will inevitably degenerate into the pot boiler class. Factory methods of production are a natural sequence of such conditions. Mr. Cram seems to feel this when he says: "The triumphant individuality of the renaissance has hardened into an economic system, that through mechanics, capitalism and division of labor has become a very sordid kind of slavery."

The architect and the craftsman are in the same boat, and we ought to be careful how we rock it. A small number of architects will, by reason of their commanding position in the profession, be able to control and supervise the work of the craftsman. The majority, however, will do just as they have done in the past, i. e., cheapen the product

of the craftsman because of the unwillingness of the owner to pay for good work.

A few competent craftsmen will get the work that is specially desired and for which a fair allowance has been made in the specification.

What answer does the architect give to the owner who knows nothing about architecture as an art and who cares little about the embellishment of the building, but who does know a great deal about percentage and profit, and who insists on getting a revenue producing building at or near a certain price. The answer may be found in the specification.

Surely some thought must be given to the study of economics in order that evils quite apparent may be corrected. A system of taxation that would encourage the building of improvements and discourage speculation in land values would no doubt be an acceptable reform, judged from the standpoint of both architect and craftsman. Knocking the craftsman is a poor way of getting results. It seems to me it would be better to stop knocking the other fellow. We can all do our part to help the progress of architecture and its allied arts if we will only study the question from the standpoint of the common good.

"A CRAFTSMAN."

RECENT TRADE LITREATURE.

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* * *

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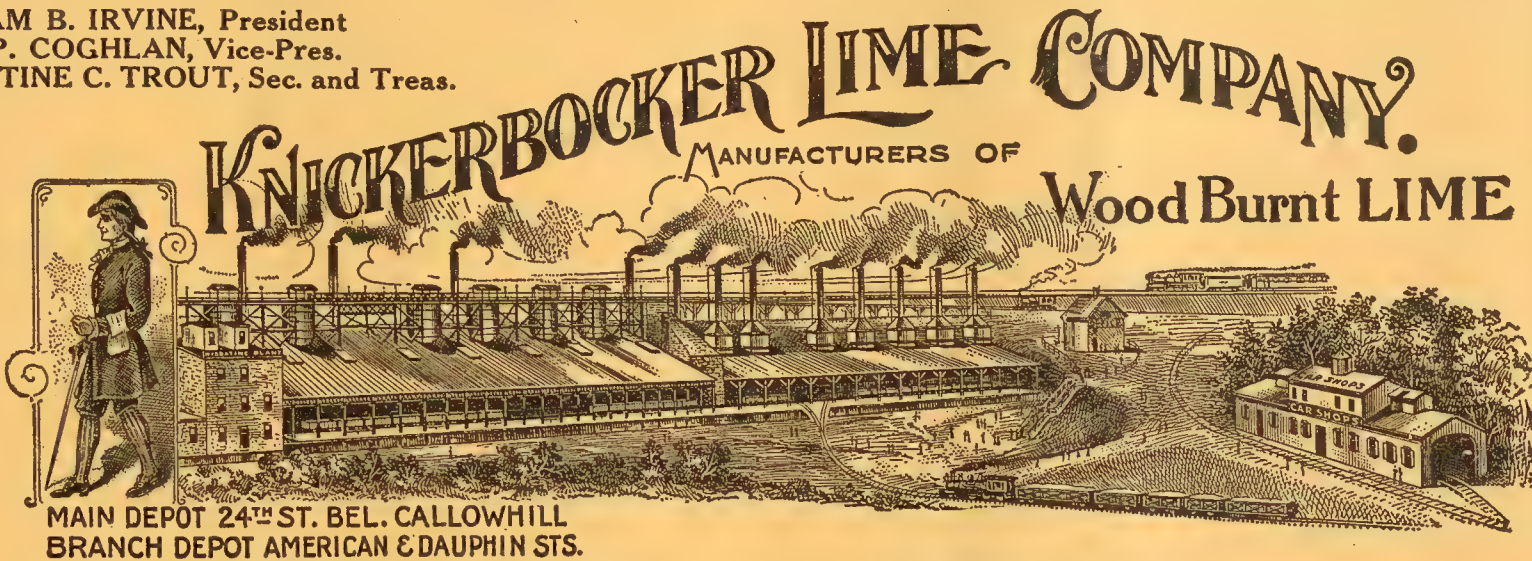
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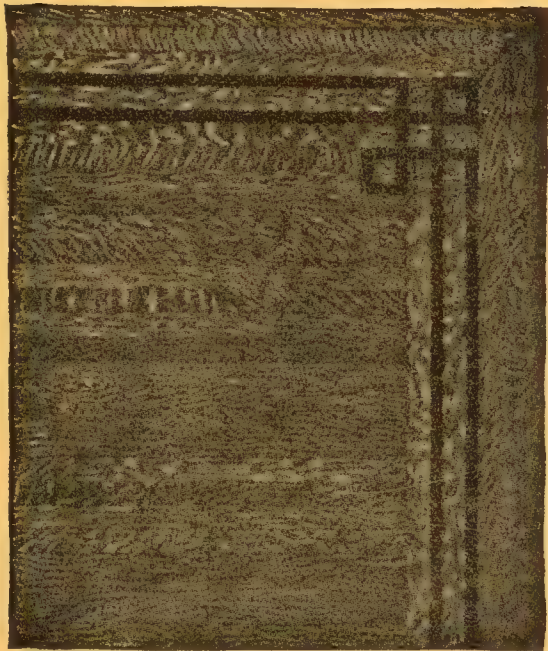
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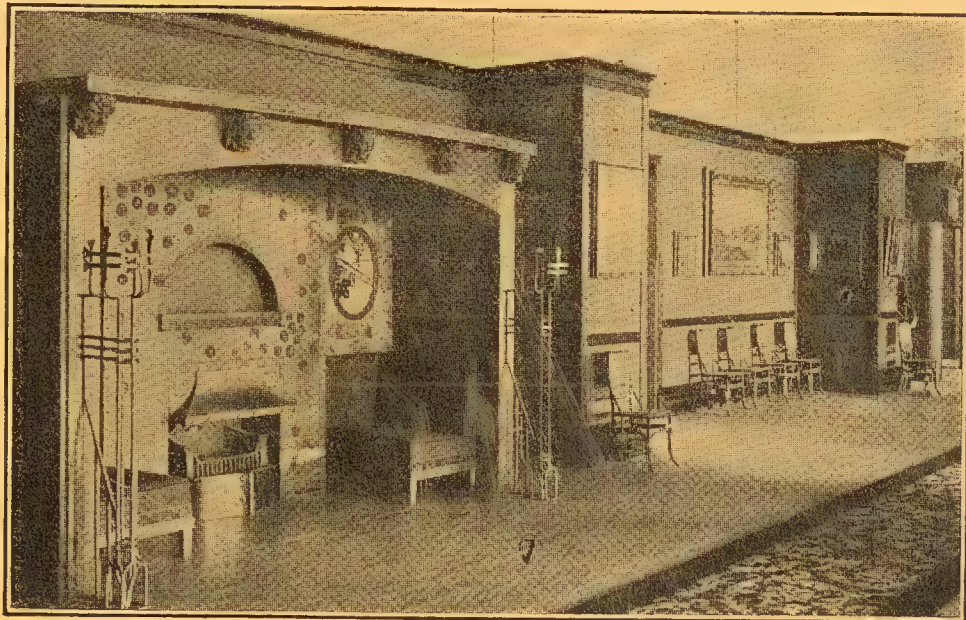
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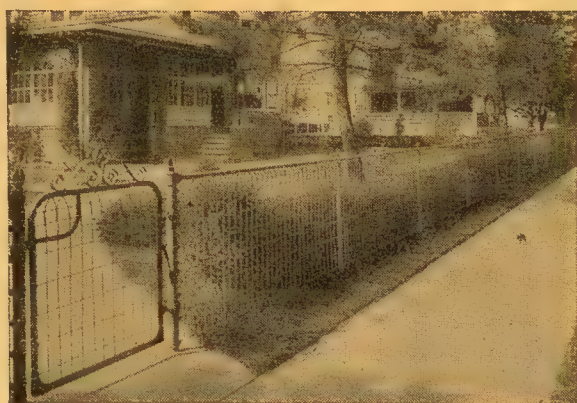
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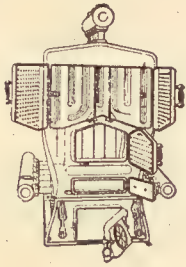
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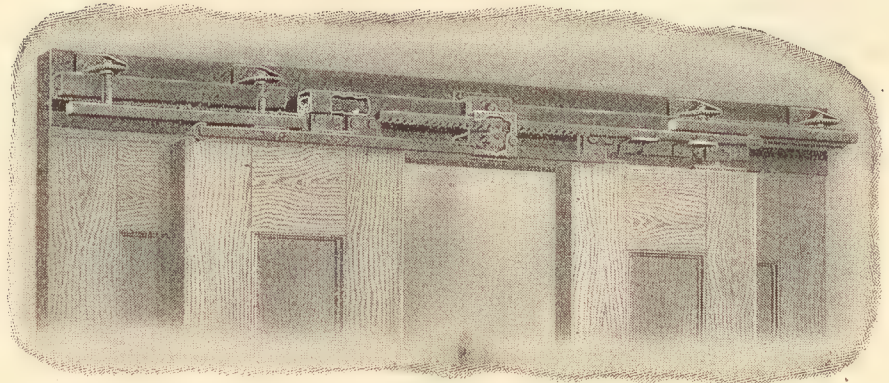
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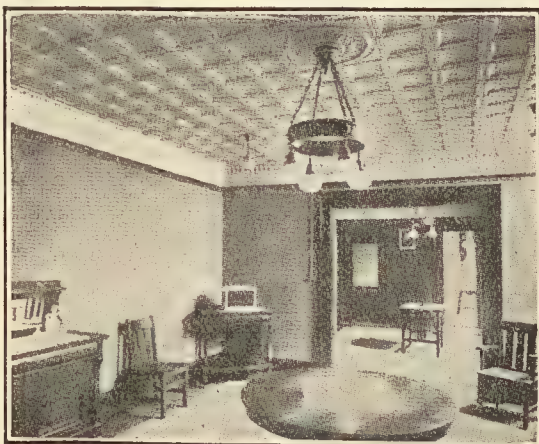


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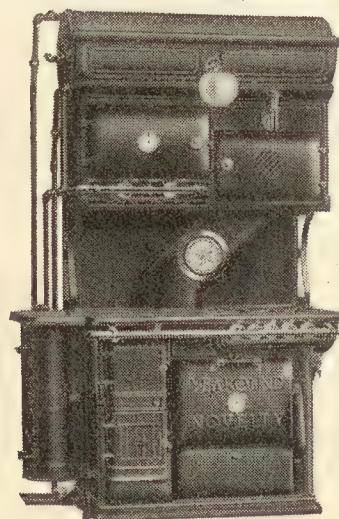
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Vol. XXIX., No. 16.

PHILADELPHIA, WEDNESDAY, APRIL 22, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Theatre, Seventeenth and Venango streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, C. O. Kruger, care of A. M. Greenfield, Manager, Real Estate Trust Building Philadelphia. Brick and terra cotta, 1 story, 42x120 feet, slag roof, steam heating, electric lighting. Plans in progress.

Picture Theatre, 2907 North Fifth street. Architect, F. N. Greisler, 2560 Frankford avenue. Owners, Levick & Waldo, 1829 South Seventh street. Brick, 1 story, 45x100 feet, slag roof, steam heating, electric lighting. Owners taking bids. P. Savar, 718 Snyder avenue, and Burgard & Weiss, Drexel Building, are figuring.

Factory and Stores (17), Broad and South streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, R. & F. P. Jacobs, 1427 Catharine street. Brick and concrete, 3 stories, 198x60 feet, slag roof, steam heat, electric lighting. Architects taking bids due April 23rd. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Cramp & Co., Denckla Building; James G. Doak & Co., Crozer Building; Irwin & Leighton, 126 North Twelfth street; Doyle & Co., 1519 Sansom street; William R. Dougherty, 1610 Sansom street; F. A. Havens & Co., 845 North Nineteenth street.

Warehouse (alt. and add.), 1211-13 North Third street. Architect, W. F. Lotz, 3462 North Helen street. Owners, Rice Bros., on premises. Brick, 3 stories, 17x64 feet, slag roof. Owners have received bids.

Club (alt. and add.), Old York road, Phila. Architect, Oliver R. Parry, 1727 Chestnut street. Owner, Old York Road Country Club, on premises. Frame, 2 stories, slate roof, steam heating, electric lighting, hardwood floors. Architect received bids April 22nd.

Office and Apartment (alt. and add.), 115 South Sixteenth street. Architect, Lloyd Titus, Cape May, N. J. Owner, Frank B. Off, on premises. Brick, 3 stories, slag roof, electric lighting, oak floors (heating, reserved). Owner taking bids due April 23rd. Ketcham & McQuade, 1029 Brown street, are figuring.

Mill, Howard street and Allegheny avenue. Architects, William Steele & Sons Co., 1600 Arch street. Owners, Philadelphia Tapestry

Mills, on premises. Brick, 1 story, 43x63 feet, slag roof, electric lighting. Builders, William Steele & Sons Co., 1600 Arch street, taking sub-bids.

Residences (22), Twelfth and Wyoming streets. Architects, private plans. Owner, Harry H. Heist, Eighteenth and Pike streets. Brick, 2 stories, 16x55 feet, slag roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Owner will take sub-bids.

Remodeling First Floor for Store, 1420 Chestnut street. Architects, Baily & Bassett, 421 Chestnut street. Lessee, W. H. Steigerwalt, 1004 Chestnut street. Consists of interior alteration and addition. Plans in progress.

Factory, 29 to 33 South Seventeenth street. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Charles Lentz, 18 North Eleventh street. Brick and concrete, 4 stories, 40x100 feet. Plans in progress.

Hospital, Allegheny avenue and Tulip street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Northeastern Hospital, 2359 East Allegheny avenue. Brick, fireproof, 4 stories. Plans in progress.

Warehouse, Main and Gay streets. Architects, Pouckert & Wunder, 310 Chestnut street. Owners, Missouri Mills Co., Feo. W. Davis, on premises. Brick, 3 stories, 46x63 feet, slag roof, metal sash and frames, steel rolling shutters, metal lath (heating and electric work, reserved). Architects received bids April 20th.

Children's Ward, Twentieth street and Susquehanna avenue. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, Women's Homoeopathic Hospital, on premises. Brick and steel, fireproof, 2 stories, slag roof, steam heating, electric lighting, hollow tile and concrete fireproofing. Plans in progress.

Office Building (add.), 1004 Chestnut street. Architect, J. T. Windrim, Commonwealth Building. Owner, William H. Steigerwalt, on premises. Lessees, Philadelphia Electric Co., Tenth and Chestnut streets. Brick, terra cotta and limestone, 6 stories, 25x230 feet, slag roof, steam heating, electric lighting. Plans in progress.

Stores and Apartments (alt. and add.), 622 South Broad street. Architects, Hoffman Company, Empire Building. Owner's name withheld. Brick, 3 stories, 75x125 feet, slag roof, steam heating, electric lighting. Architects taking bids, due April 27th. The following are figuring: George Hogg, 1634 Sansom street; Smith Hardican Company, 1606 Cherry street; Lam Building Company, 1001 Wood street; J. R. Jackson, Perry Building; Freund-Seidenbach Company, Bulletin Building.

Residence (alt. and add.), 224 West Walnut lane, Germantown. Architects, Mellor & Meigs, 205 South Juniper street. Owner, Mrs. J. F. Keator, 224 West Walnut lane. Brick and plaster, 2½ stories, tin roof, hot air heating. Architects taking bids, due April 23rd. The following are figuring: F. B. Davis, 35 South Seventeenth street; R. M. Peterson, 5250 Wakefield street; William C. Wright, 22 Harvey street, both of Germantown.

Factory, 836 to 42 Kimball street. Architect, J. E. Jackson, 727 Walnut street. Owner, Luigi Verna, 1021 South Ninth street. Brick, 4 stories, 46x70 feet, slag roof, metal doors and frames, electric lighting. Owner taking bids, due April 23rd. Doyle & Co., 1519 Sansom street; H. Chestach, 262 South Eighth street; A. Dilotta, Seventh and Christian streets, are figuring.

Residence (alt. and add.), Forty-fourth and Spruce streets. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Prof. E. P. Cheyney, 259 South Forty-fourth street. Brick, 3 stories. Plans in progress.

Apartment House, Mentor and A streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Frank P. Hood, Fifty-second and Walnut streets. Brick, 2 stories, 22x92 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, St. Martins, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and stucco, 2½ stories, 22x35 feet, shingle roof, hot water heating, electric lighting, hardwood boars. Plans completed. Architect ready for bids.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), 3619 Lawrence street, 38,00. Architect, private plans. Owners, Roberts Embroidery Company, on premises. Brick, 1 story, 60x104 feet, slag roof. Contract awarded to Samuel Morrison, 3601 North Fifth street.

Bank (alt. and add.), Sixth and Spring Garden streets. Architects, Stearns & Castor, Stephen Girard Building. Owner, Northern Trust Company, Sixth and Spring Garden streets. Stone and brick, 2 stories, 30x128 feet, slag roof (heat and light reserved), oak floors, waterproofing, dampproofing, hollow tile fireproofing, enamel brick, metal lath. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Picture Theatre, Marshall and Market streets. Architects, Hoffman & Co., Thirteenth and Walnut streets. Owner's name withheld. Brick and terra cotta, 1 story, 38x110 feet, slag roof, steam heating, electric lighting. Contract awarded to Smith-Hardican Company, 1606 Cherry street.

Residence (alt. and add.), 101-107 North Thirty-fourth street. Architect, private plans. Owners, L. A. Dilks and J. C. Thompson, 1001 Chestnut street. Brick, 2½ stories (roofing, heating and lighting reserved). Contract awarded to I. A. Dunkelberger, 71 East Herman street.

Toilet Room, 2001 Chestnut street. Architects, Harris & Richards, Drexel Building. Owner's name withheld. Consists of new fixtures, tile work, electric lighting. Contract awarded to F. B. Davis, 35 South Seventeenth street.

Residence and Garage, Oak Lane, Philadelphia, \$18,000. Architects, Neff & Thames, Reed Building. Owner, George B. Pfingst, Oak Lane avenue, Oak Lane, Philadelphia. Stone, plastered, 2½ stories, red slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Specht & Sperry, Heed Building.

Factory (add.), Eleventh and Wood streets.

Architects and engineers, Franklin Company, Crozer Building. Owner, W. H. Jarden, on premises. Brick and concrete, 4 stories, 22x70 feet, slag roof (heat and light reserved), waterproofing, metal sash and frames. Contract awarded to Turner Concrete Steel Company, 1713 Sansom street.

Residence (alt. and add.), southeast corner Sixteenth and Latimer streets. Architects, Mellor & Meigs, 20' South Juniper street. Owner, Edward Browning, 1511 Locust street. Brick, 3 stories, addition 10x20 feet, tin roof (hot air heating and electric work reserved). Contract awarded to Thomas Little & Sons, 1713 Moravian street.

Residence (alt. and add.), Torresdale, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Charles H. Howell, Torresdale, Philadelphia. Frame, 2½ stories, 37x29 feet, slate roof, hot water heating, electric lighting, metal lath. Contract awarded to J. Sims Wilson, 1125 Brown street.

Residence (alt. and add.), School Lane, Germantown, Philadelphia, \$15,000. Architects, Brockie & Hastings, 1713 Sansom street. Owner, William G. Warden, Witherspoon Building. Stone, 2½ stories, shingle roof, electric lighting, hardwood floors. Contract awarded to School Lane Land Company, Witherspoon Building.

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PENNSYLVANIA Construction News

Store and Apartment Building, State College, Pa. Architects, Webber & Koehner, State College, Pa. Owner, Dr. P. H. Dale, State College, Pa. Brick, 2 stories, 50x72 feet, asbestos roofing, steam heating, electric lighting, metal frames and sash. Owner taking bids due April 22nd. Henry L. Brown, 1714 Sansom street, Philadelphia, is figuring.

Manufacturing Building, Kennett Square, Pa. Architect, private plans. Owners, American Road Machine Co., Kennett Square, Pa. Brick and steel, 1 story, 100x153 feet, slag roof, electric lighting, steel sash and frame. Owners have received bids.

Church (add.), Ridley Park, Pa. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Ridley Park Presbyterian Church, Ridley Park, Pa. Brick and plaster, 1 and 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Garage, Cynwyd, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, John S. Eberach, Cynwyd, Pa. Stone, 2 stories, 32x30 feet, slate roof, hot-water heating, electric lighting. Plans in progress. Architect will take bids in one month.

Schools (2), Meadville, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, Board of Education, Meadville, Pa. Brick, 2 stories, 100x66 feet and 105x65 feet, slate roofs, Plenum system of heating, electric lighting. Plans completed. Owners ready for bids.

High School, Meadville, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, Board of Education, Meadville, Pa. Brick, 2 stories, 72x180 feet, slate roof, Plenum system of heating, electric lighting. Plans about completed. Owners will be ready for bids in about one week.

Kennels, Unionville, Pa. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, W. Plunkett Stewart, Commercial Trust Building, Philadelphia. Hollow tile and plaster, 1 story, 40x50 feet, shingle roof. Architects have received bids.

Garage, Wyncote, Pa. Architects, Zantzing, Borie & Medary, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, P. S. Collins, Wyncote, Pa. Stone, 1½ stories, 24x61 feet, shingle roof, hot water heating, electric lighting, gasoline storage system. Architects received bids April 20th.

Residence (alt.), Rydal, Pa. Architects, Zantzing, Borie & Medary, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, Robert Sewell, Rydal, Pa. Consists of new porch and interior alterations,

hardwood floors. Architects taking bids due April 22nd. The following are figuring: Stokes Bros., 6s23 Musgrave street, Philadelphia; William H. Eddleman & Son, 453 Green street, Roxborough, Philadelphia; W. John Stevens, Wyncote, Pa.

Residence, Manoa, Delaware County, Pa. Architects, Charles Bolton & Sons, Witherpoon Building, Philadelphia. Owner, John Stanley, Manoa, Pa. Stone and frame, 2½ stories, 30x41 feet, shingle roof, steam heating, electric lighting, hardwood floors. Architects received bids April 20th.

Art Gallery, Eleventh and Edgemont streets, Chester, Pa. Architects, Brazer & Robb, 1133 Broadway, New York City. Owner, De Shong Memorial, Chester, Pa. Stone, brick, fireproof, 2 stories, 57x90 feet, slag and copper roof (heating and lighting, reserved), water-proofing, damp-proofing, metal sash and lath. Architects received bids April 20th.

Pumping Station, Rington, Pa. Architect, Isaac Hathaway Francis, Commonwealth Building, Philadelphia. Owner, Girard Water Co., Rington, Pa. Stone, 2 stories, 32x70 feet, slate and slag roof, steam heating, electric lighting, metal sash. Owners taking bids due April 22nd. The following are figuring: H. H. Burrell, 1204 Chancellor street; Pomeroy Construction Co., 1609 Ranstead street; Fidelity Construction Co., Heed Building; Pringle Borthwick, 3018 Germantown avenue, all of Philadelphia; David Beaver, Shamokin, Pa.; Bonnett & Randall, Greensburg, Pa.; Schoele Bros., Girardville, Pa.

School Building, Rosemont, Pa. Architects (associated), D. K. Boyd, John L. Coneys and Victor Abel, northeast corner Fifteenth and Walnut streets. Brick, 1 story, 160x40 feet, 2 wings, 40x40 feet each, slate roof, hot-air heating, electric lighting. Owners received bids April 21st.

Residence, Lancaster, Pa. \$3,500. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Frank Shirk, 5 North Duke street, Lancaster, Pa. Brick, 2½ stories, 25x60 feet, slate roof, hot-water heating, gas and electric lighting. Plans in progress.

Store (alt.), Lancaster, Pa. \$5,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, S. R. Slaymaker, 214 East King street, Lancaster, Pa. New bulk windows, electric lighting, new steam heating plant. Plans in progress.

Apartment House, Lancaster, Pa. \$50,000. Architect, Melvern R. Evans, 39 East Orange street, Lancaster, Pa. Owner, S. R. Slay-

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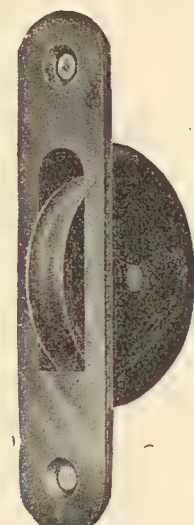
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maker, 214 East King street, Lancaster, Pa. Brick and terra cotta, 3 stories, 155x50 feet, slag roof, vapor heating, electric lighting, composition and hardwood floors, safety treads, vacuum cleaning plant. Architect taking bids. The following are figuring: S. H. Bally, 514 South Shippen street; William H. Flick, 615 East Chestnut street; H. L. Wiant, 544 Mill street; Joseph P. Brenerman, 135 North Duke street; D. S. Warfel, South Ann street, all of Lancaster, Pa.

Alterations for Apartments, Lancaster, Pa. \$7,000. Architect, H. M. Bartholomew, 39 East Orange street, Lancaster, Pa. Owner, J. S. Metzger, 563 West Orange street, Lancaster, Pa. Brick, 5 stories, 32x36 feet, slag roof, hot-water heating, gas and electric lighting, dumb waiters. Plans in progress.

Store and Apartments (alt. and add.), Lancaster, Pa. \$6,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Jet Scheetz, North Queen street, Lancaster, Pa. Brick and terra cotta, 3 stories, slag roof, hot-water heating, gas and electric lighting, tile floors. Plans in progress.

Residences (6), Lancaster, Pa. \$19,400. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Bowman & Kendig, Lancaster, Pa. Brick, stone trimmings, 3 stories, 17x52 feet each, slag roof, hot-water heating, gas and electric lighting. Architect taking bids.

Foundry and Warehouse, Marietta, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Marietta Hollow Ware Co., Marietta, Pa. Brick, 1 story, foundry, 112x120 feet; warehouse, 50x150 feet, slag roof, steam heating, electric lighting, concrete floors. Plans in progress.

Publishing Building, Pennsburg, Pa. \$7,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Town & Country, 389 Fifth avenue, New York City. Brick, 2½ stories, 30x60 feet, slag roof, steam heating, electric lighting, concrete floors. Plans in progress. Architects will take bids in two weeks.

Store and Apartment House, South Bethlehem, Pa. \$8,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, R. E. Neumeyer, South Bethlehem, Pa. Brick, 3 stories, 20x70 feet, slag roof, hot-water heating, gas and electric lighting. Plans in progress. Architect will take bids in 10 days.

Church, Palmerton, Pa. \$5,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Holy Trinity Lutheran Church, Palmerton, Pa. Local stone and concrete, 1 story, 39x70 feet, composition roof, hot-air heating, gas and electric lighting. Architects ready for bids.

Store and Apartments (alt. and add.), Allentown, Pa. \$3,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Samuel Perkin, Allentown, Pa. Brick, 3 stories, 30x70 feet, slag roof, steam heating, gas and electric lighting. Owner taking bids.

Residence, Allentown, Pa. \$10,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, J. H. Feldhege, Allentown, Pa. Hollow tile and stucco, 2 stories, 41x32 feet, tile roof, hot-water heating, gas and electric lighting, hardwood floors. Owner taking bids.

Hall, 519 Northampton street, Easton, Pa. Architect, F. H. Wenzelberger, Easton, Pa. Owner, Odd Fellows, Easton, Pa. Brick and terra cotta, 3 stories, 54x185 feet, slag roof, steam heating, electric lighting. Architect taking bids. The following are figuring: F. Roe Searing, Perry Building, Philadelphia; A. A. Bechtel, F. J. Lerch & Co., A. P. Smith, W. H. Snyder, of Easton, Pa.; John Stiles, Bangor, Pa.; W. A. Stein, Allentown, Pa.; Butz & Clader, Allentown, Pa.; Groman Bros., Bethlehem, Pa.; H. J. Wenzelberger, Phillipsburg, N. J.

School (add.), West Easton, Pa. \$10,000. Architect, F. H. Wenzelberger, Easton, Pa. Owner, Board of Education, Easton, Pa. Brick and frame, 2 stories, 40x45 feet, slate roof, steam heating, electric lighting. Owners received bids April 21st.

Office Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Conestoga Traction Co., 17 East Orange street, Lancaster, Pa. Brick, stone and steel, fireproof, 10 stories. Plans in progress.

Residence, Millersville, Pa. \$6,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Mr. Harbold, Normal School, Millersville, Pa. Brick and cement, 2½ stories, 32x38 feet, shingle roof, hot-water heating, electric lighting. Plans in progress.

Parsonage, Darby, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Trinity Church, Darby, Pa. Stone and brick, 2½ stories, 25x45 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress. Bids in a few days.

Residence, Jenkintown, Pa. Architect, L. V. Boyd, Harrison Building, Philadelphia. Owner, Louis R. Dutton, Jenkintown, Pa. Hollow tile and plaster, 2½ stories, 36x55 feet, slate roof, electric lighting. Architect taking bids due April 23rd. A. Whitehead, Inc., 1624 Latimer street; Specht & Perry, Heed Building; F. L. Hoover & Sons, 1023 Cherry street, all of Philadelphia; W. J. Stevens, Wyncote, Pa.; M. E. Hauser, Glenside, Pa.; W. D. Lukens, North Wales, Pa., are figuring.

Church, Lansdale, Pa. \$30,000. Architects, Neff & Thames, Heed Building, Philadelphia. Owner, First Baptist Church, Lansdale, Pa. Stone, 1 story, slate roof, steam and vapor heating, electric lighting, metal lath, membrane damp-proofing. Architects taking bids due April 27th. The following are figuring: John Morrow Construction Co., 308 South Twelfth street; Smith-Hardican Co., 1606 Cherry street; Specht & Sperry, Heed Building; Alexander Chambley, 243 South Tenth

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Fire House (add.), Ashbourne, Pa. Architect, Stanley Yocom, 5517 Morris street, Germantown. Owner, Old York Road Fire Co., care of Samuel H. Magargal, 319 Montrose street, Philadelphia. Stone and brick, 2 stories, composition roof, electric lighting, extension to steam heating. Owners taking additional bid due April 27th. Stacy Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

Residence (alt.), Elkins Park, Pa. Architects, Sohmerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Samuel N. Magill, Elkins, Park, Pa. Consists of remodeling

kitchen. Owner received bids April 20th.

Odd Fellows' Hall, Chester, Pa., \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Odd Fellows, Upland Lodge, No. 253, Chester, Pa. Brick and terra cotta, 3½ stories, 50x110 feet, slag roof, steam heating, combination lighting, tile floors. Architect taking bids.

Fire House and Hall (add.), Colwyn, Pa. Architect, H. M. Pedricks, Darby, Pa. Owner, Borough of Colwyn, Pa. Brick, 3 stories, 25x85 feet, asbestos, shingle and slag roof, hot water heating, electric lighting. Architect taking bids, due May 1st. The following are figuring: E. E. Hollenback, Fifteenth and Race streets, Philadelphia; W. J. Irvin, 5927 Kinsessing avenue, Philadelphia; Joseph Loudon, Lansdowne, Pa.; F. Roe Searing, Perry Building, Philadelphia.

PENNSYLVANIA

Contracts Awarded

Church, Oakmont, Delaware County, Pa. Architects, Charles Bolton & Sons, Wither spoon Building, Philadelphia. Owner, Grace Chapel. Stone, 1 story, 50x90 feet, slate roof. Contract awarded to Georje W. Deaves, Oakmont, Pa.

Residence (alt. and add.), West Conshohocken, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, William B. Read, Conshohocken, Pa. Stone, hollow tile and plaster, 3 stories, tin roof, electric lighting, extension to hot-water heating, quartered white oak floors, metal lath, damp-proofing for stucco. Contract awarded to William H. Eddleman & Sons, 453 Green lane, Roxborough, Philadelphia.

Farm House and Barn (alt. and add.), Meadowbrook, Pa. Architect, Thomas B. Lippincott, Huntingdon Valley, Pa. Owner, Clarence Watkins, Lansdowne, Pa. Stone, 2½ stories. Contract awarded to W. John Stevens, Wyncote, Pa.

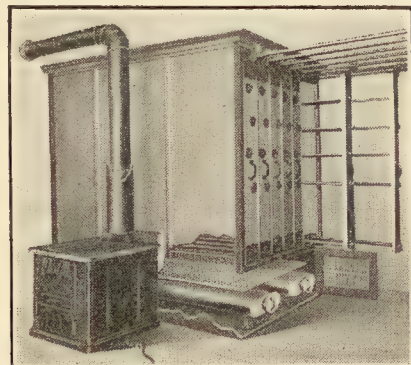
Residence, Moylan, Pa. Architect, William M. Walton, 714 Walnut street, Philadelphia. Owner, P. J. Walton, Moylan, Pa. Hollow tile and plaster, 2½ stories, 26x32 feet, shingle

roof, hot-water heating, electric lighting. Contract awarded to H. L. Walton, Moylan, Pa.

Garage, Haverford, Pa. Architect, H. W. Sellers, Stephen Girard Building, Philadelphia. Owner, Wilfred Lewis, president Tabor Manufacturing Company, Philadelphia, Eighteenth and Hamilton streets. Stone and plaster, 2 stories, 27x34 feet, shingle roof, damp-proofing, metal lath (heating, electric work and gasoline pump reserved). Contract awarded to J. Sims Wilson, 1125 Brown street, Philadelphia.

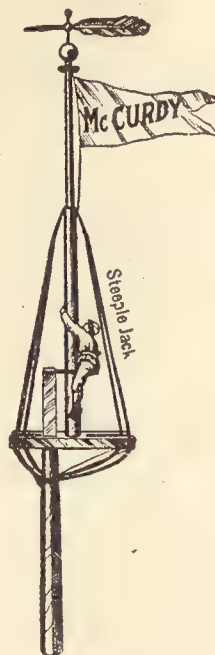
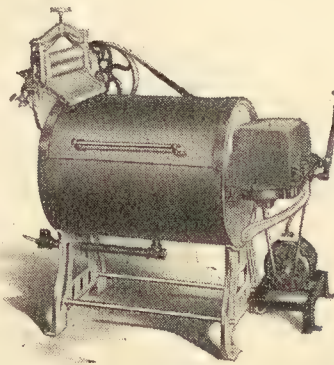
Residence (alts.), Meadowbrook, Pa. Architect, private plans. Owner, Andrew V. Brown, 738 Sansom street, Philadelphia. Stone, 2½ stories. Consists of general remodeling of farm house for residence. Contract awarded to Harry R. Rust, 41 North Hutchinson street, Philadelphia.

Residence (alts.), Newtown Square, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Dr. Thomas G. Ashton, Wynnewood, Pa. Stone, 2½ stories, slate roof, wire lath. Contract awarded to W. H. Jones, West Chester, Pa.



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One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

Many are on the road to success—traveling the wrong way.

NEW JERSEY Construction News

Factory, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, name withheld. Brick and concrete, 3 stories, 53x123 feet, slag roof, steam heating, electric lighting, elevator. Plans in progress. Architects will take bids in two weeks.

Hotel, Cape May, N. J. Architect, C. W. Churchman, 130 South Fifteenth street, Philadelphia. Owners, Stockton Land Co., Cape May, N. J. Brick and frame, 4 stories, 60x100 feet. Preliminary plans in progress.

School, Northfield, N. J. Architect, Board of Education, Northfield, N. J. Brick and terra cotta, 3 stories, 58x65 feet, slag roof, electric lighting, water-proofing, damp-proofing, composition floors, metal lath. Owners taking revised bids due April 28th. John W. Emery, 1524 Sansom street, and Alexander Chambly, 243 South Tenth street, Philadelphia, are figuring.

Factory, Fourth and Jefferson streets, Camden, N. J. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, General Gas Mantle Co., on premises. Brick and concrete, 3 stories, 40x135 feet, slag roof, steam heating, electric lighting. Architect is taking sub-bids.

School, Pedricktown, N. J., \$20,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, care of John McGiven, Pedricktown, N. J. Brick, 2 stories, 60x72 feet, slate roof, electric lighting, safety treads (heating, separate bid). Owners taking bids, due April 27th.

Residence, Mt. Holly, N. J. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, James Logan, Mt. Holly, N. J. Stone and frame, 2½ stories, 26x30 feet, shingle roof, steam heating, electric lighting. Architects and Owner taking bids. D. E. Boyer & Co., 523½ Arch street, Camden, N. J., are figuring.

School Building, Almonesson, N. J. \$7,000. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Almonesson School Board. Brick, 1 story (2 rooms), slate roof, hot-air heating, water supply system. Plans in progress.

School Building, Bargaintown, N. J. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owners, Egg Harbor Township School Board, Egg Harbor, N. J. Brick and limestone, 2 stories, 65x122 feet, slate roof, gas lighting, safety treads, metal lath, metal ceilings, separate bids on heating, hot air gravity system or direct-indirect steam. Owners taking bids, due April 24th. The following are figuring: J. W. Emery, 1524 Sansom street; Alex. Chambly, 243 South Tenth street, Philadelphia; John Ingersoll, 1510 Atlantic avenue; Alex. W. Dick, 45 South Annapolis avenue; W. B. Porch, Thompson Bros., 14 South Ohio avenue; W. S. Beaumont, 12 South Tennessee avenue; J. E. Steelman, 12 South Connecticut avenue, all of Atlantic City, N. J.; William Lear, Linwood, N. J.; Charles Sheppard, Northfield, N. J.; Carl S. Hopf, Linwood, N. J.; Charles S. Corson, Linwood, N. J.

School, Elmer, N. J. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, Board of Education, care of E. Bostwick, Elmer, N. J. Brick, 2 stories, 51x80 feet, slate roof, steam heating, electric lighting. Plans completed. Owners taking bids, due May 1st.

School, Pedricktown, N. J. Architect, Clyde S. Adams, 1509 Arch street. Owner, Oldmans Township Board of Education, Pedricktown, N. J. Brick and plaster, 2 stories, 71x59 feet, slate roof, electric lighting (heat-

ing separate bids), concrete and hollow tile fireproofing, safety treads, metal lath, kalamein doors. Owners taking bids, due April 27th. The following are figuring: Harrison C. Rea Company, 1027 Wood street; George Hogg, 1634 Sansom street; Alex. Chambly, 243 South Tenth street; A. Whitehead, Inc., 1624 Latimer street; Berry-Goodwin Company, Drexel Building; Smith-Hardican Company, 1606 Cherry street; Burd P. Evans Company, Thirteenth and Wallace streets, all of Philadelphia; W. A. Richman, Moorestown, N. J.; W. Titus, Pennsgrove, N. J.; H. J. Wenselberger, Phillipsburg, N. J.; A. S. Reed & Bros., Wilmington, Del.; D. E. Boyer & Co., 523½ Arch street, Camden, N. J.

Residence, Red Bank, N. J. Architect, John H. Duncan, 208 Fifth avenue, New York City. Owner, Andrew Freidman, 11 Pine street, New York City. Brick and plaster, 3 stories, 65x90 feet, tile roof, hardwood floors (heating and lighting reserved). Architect taking bids, due April 27th. Stacey Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

School (add.), Merchantville, N. J. Architect, H. A. Macomb, 214 South Seventh street, Philadelphia. Owners, Board of Education, Merchantville, N. J. Brick, 2 stories, slate roof, steam heating, electric lighting. Plans in progress. Owners ready for bids in two weeks.

Store and Apartment House, Atlantic City, N. J. Architect, W. S. Hewitt, Bartlett Building, Atlantic City. Owner's name withheld. Brick and hollow tile, 3 stories, 52x46 feet, slag roof, hot water heating, gas and electric lighting, hardwood and tile floors, leaded glass, marble work. Plans in progress.

Hotel and Stores (alt. and add.), Michigan and Atlantic avenues, Atlantic City, \$4,000. Architect, V. B. Smith, Sheen Building, Atlantic City. Owners, Kline Brothers, on premises. Brick, 1 story, 40x50 feet, slag roof, gas and electric lighting, hardwood floors, tile works. Architect taking sub-bids.

Store and Apartment House, Atlantic City, N. J., \$25,000. Architect, V. B. Smith, Sheen Building, Atlantic City. Owner, Charles F. Wahl, 1302 Atlantic avenue, Atlantic City. Brick, stone trimmings, 3 stories, 60x90 feet, slag and tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work, fire escapes. Plans in progress. Architect will take bids May 1st.

Apartment House, Huston and Atlantic avenues, Atlantic City, \$8,000. Architect, V. B. Smith, Sheen Building, Atlantic City. Owner, Charles F. Wahl, 1302 Atlantic avenue, Atlantic City. Brick, stone trimmings, 3 stories, 37x46 feet, slag roof, hot water heating, gas and electric lighting, tile work. Plans in progress. Architect will take bids May 1st.

New Jersey

Contracts Awarded

Church, Bayhead, N. J. \$10,000. Architect, W. P. Endebrock, American Mechanics Building, Trenton, N. J. Owner, R. C. Church, care of Rev. H. Benard, Point Pleasant, N. J. Frame, 1 story, 36x72 feet, slate roof, hot-air heating, electric lighting. Contract awarded to Joseph Stillwell, Mantoloking, N. J.

Residences and Stores (5), Trenton, N. J. Architect, William B. Thines, 326 West

State street, Trenton, N. J. Owner, Giovanni Muccioli, Trenton, N. J. Brick, 2½ stories, slag, slate and tin roofs, gas and electric lighting. Contract awarded to Antonio Ogliarulo, Trenton, N. J.

Residence, Haddonfield, N. J. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Lawrence Appleton, Haddonfield, N. J. Stone and frame, 2½ stories, 30x70 feet, shingle roof, hot-air heating, electric lighting. Contract awarded to F. G. Myhlertz, 1737 Filbert street, Philadelphia.

Club House, Sumner, N. J. Architect, Charles Barton, Keen, Bailey Building, Philadelphia. Owner, Pine Valley Golf Club, care of G. A. Crump, Merchantville, N. J. Brick, hollow tile and plaster, 2½ stories, 66x34 feet, shingle roof, maple floors (heating, electric work and metal lockers, reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Dance Hall, Atlantic City, N. J. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Garden Pier Co., Atlantic City, N. J. Hollow tile and plaster, 1 story, 80x176 feet, slate roof, electric lighting. Contract awarded to Freund-Seidenbach Company, Bulletin Building, Philadelphia.

Theatre (alts.), Atlantic City, N. J., \$5,000. Architects, Hoffman Company, Empire Building, Philadelphia. Owner, Colonial Theatre, Atlantic City, N. J. Consists of new brick front, marquees, electric lighting. Contract awarded to Freund-Siedenbach Company, Bulletin Building, Philadelphia.

Miscellaneous Construction News

Service Building, Atlanta, Ga. Architect, John Graham, Highland Park Bank Building, Detroit, Mich. Owners, Ford Motor Car Co., Detroit, Mich. Concrete, red pressed bricks and terra cotta, 3 stories, 139x295 feet, tar, gravel and tile roofs, metal sash, Kalamein doors, safety treads, damp-proofing, and water-proofing (heating and electric work, reserved). Architect taking bids due April 25th. Wells Construction Co., Witherspoon Building, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Store Building, Detroit, Mich. Architect, Albert Kahn, Detroit, Mich. Owner, Jacob Siegen, Detroit, Mich. Terra cotta and concrete, 8 stories, 72x100 feet, composition roof, steam heating, electric lighting, metal lath, kalamein doors, elevators, enamel brick, steel casements, steel shutters, damp-proofing, metal lath, metal sash and frames. Architects taking bids due April 24th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, is figuring.

Store Building, Roanoke, Va. Architects, Frye & Chesterman, Roanoke, Va. Owners, Jefferson Street Co., Inc., Roanoke, Va. Brick and steel (concrete floors), 4 stories, 99x168 feet, slag roof, water-proofing, metal frames and doors, Kalamein doors, metal lath, vault lights (heating, electric work and elevators, reserved). Architect taking bids. James H. Wells, Heed Building, Philadelphia, and J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

Residence, Tobens, Md. Architect, Charles Barton Keen, Bailey Building Philadelphia. Owner, George S. Jackson, Tobens, Green Spring Valley, Md. Frame, 2½ stories, 25x45 feet, wing, 17x30 feet, shingle roof, vapor or hot air heating, electric lighting, hardwood floors. Architect taking bids due April 27th. The Cowan Building Co., Gladfelter & Chambers, G. Walter Tovel, A. T. West, all of Baltimore, Md., are figuring.

Service Buildings, Wilmington, Del. Architects, De Armond, Ashmead & Bickley, 618

Chestnut street, Philadelphia. Owner, H. Rodney Sharp, Wilmington, Del. Stone, 2½ stories, 65x35 feet and 22x40 feet, shingle roof, vapor vacuum heating, electric lighting. consists of boiler house, garage, stable and laundry. Plans in progress. Will take bids May 1st.

Library Building, Indianapolis, Ind. \$500,000. Architects (associated), Paul P. Cret, 516 Woodland Terrace, and Zantzinger, Borie & Medary, northeast corner Fifteenth and Walnut street, Philadelphia. Owners, City of Indianapolis, Ind. Stone, 1 story. Plans about to be started.

Garage, Wilmington, Del. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, A. M. L. duPont, Wilmington, Del. Brick and plaster, 1½ stories, 36x37 feet, slate roof, electric lighting. Revised plans in progress.

Residences (2), Third and West streets, Wilmington, Del., \$5,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Mrs. M. Wehle, Wilmington, Third and West streets. Brick, 3½ stories, 17x38 feet, tin roof, hot water heating, combination lighting. Plans in progress. Ready for bids in two weeks.

Twin Houses, Oxford, Pa., \$6,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington. Owner, Mrs. William D. Miller, Oxford, Pa. Brick and stucco, 2½ stories, 17x38 feet, slag and slate roof, hot water heating, combination lighting, metal lath. Owner taking bids.

Apartment House, Tenth and French streets, Wilmington, \$29,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, Tenth and French streets, Wilmington, Del. Brick, 3½ stories, 34x48 feet, slag roof, hot water heating, combination lighting, tile floors, copper cornices. Bids in. Contract not awarded.

Store and Residence, northwest corner of Fourth and Harrison streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mary G. Eyer, Front and Adams streets, Wilmington, Del. Brick, 3 stories, 20x64 feet, tin roof, steam heating, combination lighting. Bids in. Contract not awarded.

Residences (3), Wilmington, Del., \$6,000. Architect, Roscoe C. Tindall, Esuitable Building, Wilmington, Del. Owner's name withheld. Brick and stucco, 2 stories, 16x38 feet, slag roof, hot air heating, gas and electric lighting. Bids in. Contract not awarded.

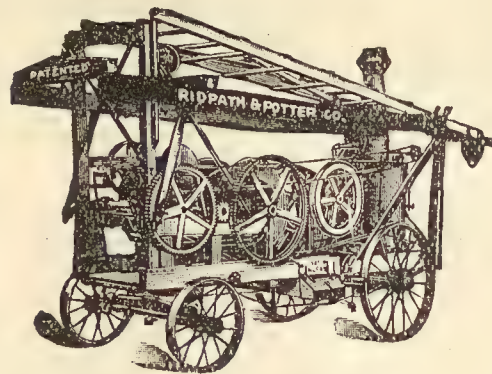
Miscellaneous

Contracts Awarded

Garage, Mount Shannon, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, R. R. M. Carpenter, Montchanin, Del. Brick and concrete, 1 story, 64x28 feet, asbestos roof, steam heating, electric lighting, concrete floors. Contract awarded to Adams Company, Wilmington, Del.

Stores and Apartments (alt. and add.), Fourteenth and King streets, Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Brick, 3 stories, 20x80 feet, tin roof, hot water heating, gas and electric lighting. Contract awarded to John E. Healey & Son, 707 Tatnall street, Wilmington, Del.

Residence (alt. to store), 624 North Ninth street, Wilmington, Del., \$1,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, Michael Pennetto, on premises. Cement, glass and wood, 1 story, 18x22 feet. Contract awarded to Charles H. Tindall & Sons, 614 Tatnall street, Wilmington, Del.



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587 Bourse Building

Philadelphia, Penna.

Service Building, Indianapolis, Ind. \$300,000. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Co., Detroit, Mich. Brick, steel and terra cotta, 5 stories, 142x317 feet, slag roof (heat and light, reserved), damp-proofing, kalamein work (doors and trimmings, steel), iron windows and frames, metal lath. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Science Building, Ann Arbor, Mich. \$450,000. Architect, Albert Kahn, Detroit, Mich. Owner, University of Michigan, Ann Arbor, Mich. Concrete, brick and terra cotta, 4 stories, 254x278 feet, composition roof (heat and light, reserved), asphalt floors, damp-

proofing, water-proofing, metal lath, steel sash and frames, kalamein work, elevators. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Factory Building, Borden avenue, Long Island City, N. Y. Architects, Ballinger & Parrot, 1211 Arch street, Philadelphia. Owners, American Bar Lock Company, Twenty-sixth street and Pennsylvania avenue, Philadelphia. Brick and terra cotta, 2 stories, 75x180 feet, slag roof, steam heating, electric lighting, metal partitions, rolling steel sash, waterproofing. Contract awarded to Loss & Dothard, 1438 South Penn Square, Philadelphia.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Andrew Petner (O), 4655 Cambridge street. Cost, \$9,000. Six dwellings, brick, 2 stories, 14x30 feet. Cost, \$4,500. Three dwellings. Cost, \$3,400. Two dwellings, Duncan and Pierce streets.

Benjamin Hass (O), 3008 Germantown avenue. J. R. Jackson (C), Perry Building. Cost, \$17,00. Theatre, brick, 1 story, 62x94 feet, Germantown avenue and Sharpnack street.

J. W. Kennedy (O), 1820 Spruce street. William Black (C), 3528 Hope street. Cost, \$5,000. Five dwellings, brick, 2 stories, 14x25 feet, Sepviva and Venango streets.

Thomas McGrath (O), High street and Stenton avenue. Cost, \$2,000. Two dwellings, bick, 2 stories, 15x35 feet, High street and Stenton avenue.

W. Hendron (O), 2512 East Oakdale street. J. Jamison (C), 2581 Huntingdon street. Cost, \$2,000. Dwelling, brick, 2 stories, 16x40 feet, 254 2Cambria street.

S. W. Cook (O), 5718 North Fourth street. Cost, \$8,600. Four dwellings, brick, 2 stories, 16x42 feet, Princeton avenue and Rising Sun Lane. Cost, \$2,750. Store and dwelling, Fifth street and Olney avenue.

Burkeholder & Robinson (O), 5918 North Ninth street. Cost, \$2,700. Dwelling, brick, 2 stories, 24x30 feet, Eleventh street and Champlost avenue.

F. C. Michaelson (O), 211 South Forty-seventh street. Cost, \$17,500. Store and five dwellings, 3 stories, brick, Wayne and Loudon streets. Cost, \$7,000. One dwelling and store.

Charles Lessig (O), Pekin street and Monastery avenue. W. Hillsby (C), 1823 Sansom street. Cost, \$3,000. One dwelling, brick, 3 stories, 16x52 feet, Pekin street and Monastery avenue.

Dr. George Woodward (O), North American Building. J. Walt (C), Willow Grove, Pa. Cost, \$13,500. Two dwellings, brick, 3 stories, 22x40 feet, Chestnut Hill, Phila.

H. H. Heist (O), Eighteenth and Pike

streets. Cost, \$24,000. Eight dwellings, brick, 2 stories, 16x20 feet, Twelfth street and Wyoming avenue. Cost, \$3,500. One dwelling. Cost, \$3,500. One dwelling. Cost, \$15,000. Six dwelling. Cost, \$13,500. Five dwellings.

W. H. Candler (O), 4930 Frankford avenue. William Ratcliffe (C), 1521 Arrot street. Cost, \$1,300. Dwelling brick, 2 stories, 14x28 feet, 4817 Almond street. Cost, \$1,300. One dwelling.

J. T. Bailey Co. (O), Water and Tasker streets. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$30,000. Factory, Water and Tasker street.

J. W. Shisler (O), Second and Durfor streets. Cost, \$19,200. Sixteen dwellings, brick, 2 stories, 14x25 feet, 1911 Florence street. Cost, \$2,000. Store and dwelling.

Louis Stucatur (O), 1019 Waverly street. Cost, \$3,750. One dwelling, brick, 3 stories, 17x56 feet, 1020 Pine street.

Hart & Bailly (O), Eighth and Wingohocking streets. Cost, \$41,800. Nineteen dwelling, brick, 2 stories, 15x25 feet, Seventh and Ansbury streets. Cost, \$42,000. Fourteen dwellings. Cost, \$6,000. Two dwellings.

G. Edel (O), Ambler, Pa. Cost, \$16,000. Ten dwellings, brick, 2 stories, 14x28 feet, Jasper and Venango streets. Cost, \$11,200. Seven dwellings. Cost, \$2,200. Store and dewllings.

H. Sanders (O), 31 South Eighteenth street. Smith-Hardican Co. (O), 1606 Cherry street. Cost, \$4,000. Shop, brick, 1 story, 40x130 feet, 231 North Twenty-third street.

A. Rathbalt (O), 6022 Larchwood avenue. Cost, \$2,500. Store and dwellings, brick, 2 stories, 15x50 feet, 5160 Thompson street.

J. H. McClatchey (O), Land Title Building. Cost, \$12,000. Two dwellings, 3 stories, brick, 17x52 feet. Cost, \$12,000. Two dwellings, Lincoln Drive and Carpenter street.

C. Schmidt & Sons (O), 126 Edward street. J. N. Gill Co. (C), Heed Building. Cost, \$12,000. Store and dwelling, brick, 3 stories, 26x43 feet, Kensington avenue and Albert street.

J. Zane (O), Land Title Building. Cost, \$16,000. Four dwellings, brick, 2 stories, 16x54 feet, Wyoming avenue and Camac street. Cost, \$67,500. Twenty-seven dwellings.

Frank Thompson (O), Eighty-fourth street and Tinicum avenue. Cost, \$3,400. Two dwellings, brick, 2 stories, 11x16 feet, Eighty-second street and Botanic avenue. Cost, \$2,000. Store and dwelling.

G. W. Shisler (O), 2300 South Eleventh street. Cost, \$1,500. Store and dwelling, brick, 2 stories, 15x37 feet, Hutchinson and Shunk streets. Cost, \$1,500. Store and dwelling. Cost, \$31,200. Twenty-six dwellings.

Sayre Memorial M. E. Church (O), Sixtieth street and Larchwood avenue. F. H. Keiser Co. (C), Pottstown, Pa. Cost, \$32,000. Church, stone, 1 story, 56x66 feet, Sixty-first and

Catherine streets. Cost, \$5,000. Residence.

Herman Beyer & Co. (O), 1010 North Fourth street. S. Morrison (C), 3610 North Fifth street. Cost, \$8,700. Theatre, brick, 1 story, 44x120 feet, Sixty-first and Vine streets.

J. D. Larkin Co. (O), Buffalo, N. Y. Aberthan Construction Co. (C), Boston, Mass. Cost, \$2,000. Store, brick, 2 stories, 10x72 feet, 2224 Arch street.

J. Y. T. Adair (O), 6700 Rising Sun Lane. Cost, \$4,600. Two dwellings, brick, 3 stories, 16x42 feet, Fanshaw street and Rising Sun Lane.

Roberts Emroidery Co. (O), 3619 Lawrence street. Samuel Morrison (C), 3601 North Fifth street. Cost, \$8,000. Mill, brick, 1 and 2 stories, 60x28 feet, 3619 Lawrence street.

Alterations and Additions

Brs. B. C. Tilghman (O), 2210 St. James' Place. J. E. Walt (O), 204 East Willow Grove avenue. Cost, \$4,200. Dwelling, 2210 St. James' Place.

Harry Rosenthal (O), 2629 Kensington avenue. F. G. Myhlertz (C), 1737 Filbert street. Cost, \$3,000. Store, 2639 Kensington avenue. Cost, \$60.

Ed. Browning (O), 1511 Locust street. Thomas Little & Sons (C), 1713 Moravian street. Cost, \$6,400. Dwelling, 245 South Sixteenth street.

S. Leiberman (O), 505 Chestnut street. Cost, \$5,500. Store and Apartment House, Ninth and Race street.

F. Schweder (O), Twelfth street and Susquehanna avenue. A. S. Brown (C), 1900 Clearfield street. Cost, \$1,485. Store and dwelling, 2637 Kensington avenue.

C. E. Johnson & Co. (O), 509 South Tenth street. Cost, \$8,000. Store, Swanson and Ritten streets.

Louis Harlan (O), 624 South Sixtieth street. Ayer & Camean (C), 5431 Market street. Cost, 1,250. Dwelling and store, 624 South Sixtieth street.

S. Kohn (O), 7149 Torresdale avenue. H. Gercks (C), 3532 Princeton avenue. Cost, \$1,500. Store, 7149 Torresdale avenue.

Manayunk Realty Co. (O), Empire Building. James G. Doak & Co. (C), Crozer Building. Cost, \$1,000. Theatre, Main and Carson streets.

Sipple Bros. (O), Knorr and Tulip streets. T. Duff (C), 3648 Frankford avenue. Cost, \$1,200. Factory, Knorr and Tulip streets.

Philadelphia & Reading Railway Co. (O), Reading Terminal. George Hogg (C), 1634 Sansom street. Cost, \$9,000. Engine House, Twentieth and Hamilton streets.

W. H. Jardn (O), Eleventh and Wood streets. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$15,000. Manufacturing, brick, 4 stories, 19x71 feet, Eleventh and Wood streets.

Powers, Weightman & Rosengarten (O) (O), Ninth and Parrish streets. William Steele & Sons Co. (C), 1600 Arch street. Cost, \$2,000. Shed, Ninth and Parrish streets.

Horn & Hardart Co. (O), 210 South Tenth street. H. R. Rust (C), 724 Ludlow street. Cost, \$1,000. Office, 9 North Fourth street.

prove interesting to anyone. Casual visits to any house in process of construction will inform one along these lines. Examination of catalogs or, better, viewing the fixtures themselves in the show rooms of dealers will complete one's sanitation education.

Examining a new house containing, for instance, a single bath room you will find a cast-iron pipe extending from roof to basement and thence (usually under the basement floor) to the outside foundation wall. From this point a clay (tile) pipe line connects to the sewer, cesspool or septic tank.

This pipe, a main trunk line in fact, is ordinarily one size throughout (four inches in diameter) except where it passes through the roof, when it is usually increased slightly in size. "Soil pipe" is what the pipe is called, and it should extend smoothly without sharp turns or bends from roof to cellar because it is the drainage system into which all water closets, wash bowls and bath tubs discharge. Therefore, it naturally follows that the straighter and smoother the pipe, the easier and more silently will its contents reach the sewer. These are the two most important requisites of a drainage system—easy flow and ample ventilation. Extending through the roof as it does with the upper end entirely open to the atmosphere a soil pipe gets ample ventilation.

In different places practice varies as to details of connecting this house drainage system with the sewer. In many cities (especially in the West) drains connect directly with the sewer. In other places (notably the East) a trap is interposed between drains and sewer. Which ever method is in operation in any town or city is, of course, the method to use. Indeed, most cities have plumbing ordinances which must be followed in this regard.

When there is more than one bath room, two soil pipes may be required. If two or more bath rooms come side by side, however, a single stack will prove sufficient, made large enough to do the extra work. When bath rooms are widely separated a plumbing stack must be provided for each. This is why architects usually endeavor to group bath rooms so that a single stack will suffice. One should not, however, spoil the house plan to get this result, as cost of an extra stack or two is not excessive and should not be allowed to stand between a good floor plan and one inconveniently arranged.

Kitchen sinks and laundry tubs do not usually discharge directly into the soil pipe. So much grease collects in kitchen and laundry drains (from excess soap) it is considered better practise to discharge them into a catch basin which in turn overflows into the tile drains running to the sewer. Thus grease floating on top of the water is deposited in the catch basin from which it can be periodically removed.

Grease traps, which intercept the grease before it enters the drains, are also frequently used in connection with kitchen sinks and laundry tubs.

To return once more to the soil pipe stack, one should examine the construction of a good job of plumbing to see how the different

PLUMBING AT ITS BEST

No advance in modern house building is more interesting or significant than progress in design of modern plumbing and plumbing fixtures. Indeed, one might almost say that no other part of the house equipment has been developed to such a high point, for, in truth, latest types of plumbing apparatus are wonderfully effective in operation—well-designed, well-made pieces of household machinery acting to a large extent automatically.

There are two important points to seek to seek when selecting plumbing goods: simplicity and durability. Other points should be considered, of course, but goods of simple parts made from honest materials are the only kind to buy and all other considerations should give way to these more vital ones.

Improvements in modern sanitation have been largely brought about by manufacturers, themselves, eagerly investigating new ideas in sanitation and bringing out apparatus to meet the requirements of most advanced

thinkers. Plumbing fixtures in the old days were at best crude and ineffective makeshifts compared with modern plumbing fixtures. No matter how expensive an old-time house may have been, the simplest and most modest cottage to-day is far better equipped with plumbing apparatus. This is well known by countless owners of old houses who have overhauled the plumbing, causing it to be torn out and replaced by new. Health is altogether too important a matter to endanger with bad drains or fixtures improperly trapped. Unsanitary apparatus must give way to the demands of modern sanitation. Cities recognizing evils of insanitary plumbing have passed stringent laws concerning old as well as new plumbing installations and nothing is now more carefully guarded than the plumbing apparatus of the house.

When planning to build every prospective house owner should know something about the fundamentals of modern plumbing—information easily obtained and which should

lengths of cast-iron pipe are connected. This is accomplished by placing the small (spigot) end of one section of pipe into the large (bell) end of the next. Then oakum is caulked tightly in the joint and molten lead poured in. The result ought to be an absolutely air and watertight tube through which sewage flows without danger of leaks. Such a stack should rest at the basement end on a cast-iron or brick support so it cannot settle and displace any of the sections, later.

Tile drains out in the yard are usually cemented together at the joints with mortar composed of Portland cement and sand.

Probably a little information about traps will not prove amiss. Their function is as follows: Suppose plumbing fixtures such as sinks, bowls, tubs and water closets were connected directly with the soil pipe, then nothing would prevent odors from the sewage system entering rooms by means of the waste pipes. In such a case if the rubber plug was left out of a wash bowl, odor (sewer gas) could enter through the strainer. This order might not be so pronounced as to be apparent, yet it would be there, slowly but surely contaminating the air breathed by occupants of the house.

To prevent this a trap is inserted between bowls and soil pipe. Such traps are on the principle of a loop of pipe, holding water at all times. When the contents of a bowl are discharged (by pulling up the plug) waste water flows through the loop down into the soil pipe. Sufficient water remains in the loop, however, to effectually interpose a barrier between the open bowl and the soil pipe. These loops are called traps. They vary (as to type) for each fixture, those employed for kitchen sinks, for instance, being different from those used for bath tubs. Water closets are provided with a trap built into the china bowl of the closet itself.

In selecting plumbing fixtures one instinctively gives most importance to the water closet. In choosing a water closet the owner should demand, first, one that is strongly built, connected to the soil pipe by means of a strong, leak-proof flange at the floor. Almost everyone has had experience with a leaky water closet; all will understand why it is better to have a metal floor connection than one in which the joint between closet and pipe is made tight merely by short-lived cement.

The next point to consider in selecting a closet is silent operation.

Recognizing these two requisites, durability and noiselessness, manufacturers have brought out designs of water closets which are wonderfully successful. No householder need anticipate difficulty in getting what he wants when he buys from reliable dealers.

Of great and constantly increasing annoyance in a poor plumbing job are faucets. All faucets look alike to the average citizen building his first house, and he is often influenced in favor of a particular type because it is cheapest. This is always unwise economy. Above all things choose only faucets of the best grade, for one must remember that these little instruments are really important valves

that stand between the municipal waterworks and the house—valves that are opened and closed dozens of times during the day and must, therefore, be conscientiously built to withstand wear. No one wants to be fussing with leaky, noisy faucets, yet that is what follows when cheap goods are used.

Faucets should be made of good, thick brass. Faucet mechanism should be simple in operation and so constructed as to prevent that snapping noise in pipes apt to occur when a poorly designed faucet is suddenly opened or closed. Water hammer, as it is called, can also be avoided when pipes are scientifically connected to faucets (as every plumber knows) by providing an air chamber in the system beyond each faucet.

Latest types of faucets are of excellent design, being quick-opening (often merely a quarter-turn is required), noiseless with most durable construction of non-leakable type.

When it comes to selecting wash bowls and bath tubs one finds a bewildering array to choose from. Plumbing apparatus is now generally made of three materials—enameled iron, vitreous ware and porcelain, cost being about in the order named; that is, enameled iron is least costly and porcelain most costly.

Beginning with the kitchen sink one finds upon looking at a catalog (or, better, viewing goods in the display rooms of a dealer) that sinks are procurable in enameled iron and porcelain, the former being most used because least costly. Roll rim sinks are always to be preferred, of a pattern smooth and easy to keep clean.

Pantry sinks are usually of copper or German silver because they are used almost exclusively for washing dishes and one is less liable to break dishes when a metal sink is provided. German silver is the best metal, since it does not require polishing. Most pantry sinks are made to order to fit the space required.

For the bath room one can choose an enameled iron bath tub or one made of porcelain. Latest types are known as built-in tubs. That is, they fit snugly against the tile walls of the bath room and come down tight against the floor. These are very sanitary, as anyone can see, besides being very fine in appearance. For those who prefer them, there are other types of tubs standing free from the wall, on legs or with a base set close on the floor.

Pedestal lavatories (wash bowls) have come to be the "last word" in plumbing perfection. They are usually made of enamel iron, vitreous ware or porcelain. Many beautiful designs are carried in stock by all manufacturers; each pattern can be supplied with any of the various types of faucets. Other lavatories are hung to the wall on brackets or supported by enameled iron porcelain or metal legs.

Seat baths or foot baths are being installed more in present-day bath rooms than formerly, for many have found how very convenient they are both for sitz and foot baths. They are especially convenient to small children. Enameled iron and porcelain are chiefly employed for these baths.

Toilet and manicure tables are used frequently in modern bath rooms and they have been found very useful. Some excellent patterns of manicure tables contain a little wash bowl supplied with hot and cold water. Such tables have also been found excellent for shaving tables, used by the master of the house.

Nine out of ten householders now require a shower bath in the new home, for women as well as men have come to appreciate the delights of a good shower. There are tub-showers (installed over a bath tub), built-in showers (placed in a niche in the wall), and open showers, standing free in the bath room over a receptor. The simplest type of tub showers are so inexpensive they are practicable for even the most modest homes, while elaborate built-in apparatus to suit the most expensive houses is obtainable. Stalls of built-in showers can be obtained in marble, glass, tiles or enameled iron.

Soapstone laundry tubs are excellent for the purpose, though a newer and later yellow, white or gray crockery-ware is perhaps the latest practise. Porcelain is also used for tubs. Best types of soapstone tubs are jointed in a leak-proof method and can be had in two-part and three-part patterns, standing on iron legs. Crockery tubs are of heavy ware similar to crockery kitchen utensils and come mounted on an iron frame holding two, three or four tubs. Cast cement tubs and enameled iron tubs are also on the market. Last costly laundry tubs are made of cement; next in price comes enameled iron, followed by soapstone, then crockery or porcelain tubs.

All things considered, it is never good practise to use cheap plumbing apparatus because cheap goods soon wear out. On the other hand one need not buy the most expensive. Reputable manufacturers put out only reliable goods, which they always guarantee. First-class dealers can be depended upon to advise in the matter of selecting fixtures, so even the veriest greenhorn will have no difficulty when he deals with a reliable house.—C. E. White, Jr., in "House Beautiful."

TOO MANY FOR THE BOSS.

One of the bosses at Ex-Governor Foss' blower works had to lay off an argumentative Irishman named Pat, so he saved discussion by putting the discharge in writing. The next day Pat was missing; but a week later the boss was passing through the shop and he saw him again at his lathe. Going up to the Irishman, he demanded fiercely:

"Didn't you get my letter?"

"Yis, sur, Oi did," said Pat.

"Did you read it?"

"Sure, sur, Oi read it inside and Oi read it outside," said Pat, "and on the inside yez said I was fired, and on the outside yez said, 'Return to B. F. Sturtevant Company in five days.'"

You can't hire loyalty; you have got to deserve it.—Ex.

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Editorial Comment

The 20th Architectural Exhibition, given by the Philadelphia Chapter, American Institute of Architects, and the T-Square Club, opened in the galleries of the Art Club on Saturday last. This exhibition, which contains much that is notable, will be made the subject of a special review in the next number of the "Guide." Persons interested in the beautiful will, we trust, not fail to avail themselves of the opportunity offered them to look over the entries assembled in this exhibit. While not, perhaps, extraordinary either as to distinction or volume, the exhibition is in every sense creditable and praiseworthy. A feature which will be sure to attract more than passing attention is the design and plan, by Mr. Henry Bacon, of New York, for the projected Lincoln Memorial at Washington.

* * *

William I. L. Armstrong has an article in the April number of "House Beautiful" that ought to be filed away by the average young architect for future reference. His article bears the title "Building the Small House," and is distinguished chiefly for good sense.

"Perhaps there is no sort of habitation about which there exists a greater curiosity in the minds of the American public than one finds to-day in regard to the small suburban home or country house which can be obtained at a moderate expenditure," writes Mr. Armstrong. "It is one of the most popular topics of the pictorial magazines and even several daily papers in their Saturday editions have taken the subject for serious consideration and study. The planning of a small house is frequently a very difficult problem to solve when you take into consideration economy of space and a small capital to be invested.

"It requires scheming and planning to make a modest amount of money go a long way and to receive as much room as possible for the sum invested. You might say every square foot of space has to work overtime. A successful house should contain four qualities: It should be economical in space and operation and have an attractive exterior and interior and these four elements are harder to combine in the small house than in the larger one.

"One shortcoming of the small house is the great lack of simplicity not only in its details, but also in its materials. Obviously one material for the small house is more economical, as well as pleasing and satisfying to the eye, than the small house where several materials, such as shingles, stucco, brick and stone, have been used.

"Next to the question of simplicity in materials are the important questions of general form, simplicity in line and requirements in the plan. Every vagary and individual fancy, differences in personal needs, together with location and exposure, makes

each house a new and distinct problem. It is the disregard of these several factors more than any others that makes for the unattractiveness of our suburban districts. In the general or block plan the square is nearly always used, and if it was not for the entrance door, one would not know the front from the sides or rear. In the lonely old farm houses of the Middle Atlantic and New England States, whose beauty and charm we all appreciate, we find that one of the primal rules in their construction was that one dimension dominates; not only does this give contrast to the elevations and the admired general appearance we know, but permits of more exposure and light in their rooms.

* * *

"In regard to the arranging of rooms and the plan in detail, a great deal can be said, but that is beyond the scope and latitude of this paper. However, to touch only on general questions: The entrance hall, it has been said, is the key to the dwelling. There is not a room in the whole house that can boast of greater antiquity perhaps than the hall. The modern house has been mainly worked out, so far as the plan is concerned, from the dividing of the old hall space of feudal days into the rooms that we find in the house of to-day on the entrance floor. This is the part of the house most used and not only most used but most noticed, and as guests have often to wait for a few moments in the hall they should be so impressed with the feeling of welcome and a sense of hospitality that is not mistaken, and in these few moments that they have the opportunity to look about them there should be every desire to see more of the house. It should be spacious and well lighted and its main feature, the staircase, should be well arranged and free from any appearance of being cramped or crowded and should be graceful in its proportion. The steps should have an easy rise and tread, the rail light and refined in detail so that the staircase might be considered a large piece of furniture. If space will permit, a seat or sofa to one side and possibly a small table, with perhaps a vase of flowers, a small bronze or other ornament.

"Opening into the hall there should be a small coatroom or closet and for the sake of economy in space this is best placed under the staircase and with this may be a small alcove placed to one side for the telephone. From the hall proper should open the two parts of the plan, namely, the service and the living and entertaining quarters of the family. The former will allow the servant to attend the door from the pantry and kitchen. The latter should open directly from it, possibly through glass doors, which would give the effect of openness. It is usually the living room which opens directly, possibly the dining room or both.

"In the past the space which was once devoted to a very formal parlor, stuffy and never opened except on state occasions, has now been included into the living room space. In recent years this room has been growing in favor and importance and it is reaching the former glory of the social hall of olden times in England. This is a good omen of the trend and interest taken in home building and things artistic during the past decade.

* * *

"This serviceable room has been developed until it has grown in importance to be the principal room in almost every house. Pretentious houses have the regular drawing and reception room, but are never without a large living room.

"In the small house it assumes the functions of the two former rooms. It should be greater in one dimension and should have at least two exposures. The best position for the living room is upon the south or southeast side of the house if possible, and this exposure is the warmest in winter and coldest in summer.

"It is most comfortable when it has a fireplace, as it should have, and also an opening onto a covered porch through a glass door, or better a casement sash, so that in warm weather this room could be continuously open to the porch, both forming a large space for entertainment, and this arrangement is particularly fine if the porch is screened in for summer or glazed in for the winter.

* * *

"The den or study is a very good room to have if space and money will permit. It gives the master of the house a place to retire to and is particularly useful if the owner is a business or professional man, who has to meet, after business hours in his home, his associates or clients. This room gives him a much-needed privacy and might also be used as an after-dinner smoking room.

"For saving in operation it is important that the service portion of the house should be in close communication. The pantry should connect directly with the kitchen and dining room by swinging doors. The pantry should be of such dimensions as to allow ample dresser space in one direction and wide enough so that a maid preparing or washing dishes will not interfere with the passage of another through the pantry to the hall or dining room.

"The third and fourth qualities of a successful house might be combined under the head of appearance.

"When one enters the house there should be a suggestion of space without revealing every part of it. The stairs in plain view and the doors to the various rooms where you would expect to find them. The color scheme should be simple and easy to maintain and there should not be a sudden contrast from one room to another.

* * *

"In regard to the artificial lighting of the house, it is absolutely necessary to approach it from the decorative point of view. The location of the outlets and the number of the lights per outlet depend not only on the size

and shape of the room, but also on the color, pattern, style and texture of walls, decorations and furniture. Outside the house also a great deal can be said and shall only be touched on lightly and the individuality of the owner on the inside of the house should also show itself in the garden and its approaches. The size of the property, its location on the street or road, its compass bearing, the way the ground slopes, and whether it is covered with trees or not, all enter in a large measure to give it its character. There should be at least a few trees on the property, for without them the country house loses a great deal of its charm, and unfortunate indeed is the owner who has not even a few trees close to his line on his neighbor's property. The planting should be of such a nature as to tie the house into the grounds and soften the lines of the architecture. Of course, the first floor should be close to the ground, say not more than two feet six inches; this keeps the house from being abrupt on the site and makes it intimate with its garden. The scheme of planting for the small garden should be as simple as possible and easy to maintain. A small, well-kept lawn with flowering shrubs planted where they will count the most and of varieties that will bloom in succession giving permanent color from spring to winter and whose branches hold beautifully a new fall of snow.

"Vines on white trellises give great variety and interest and a wonderful vibration of color and if against the house they make changing shadows that give detail and color to the walls. In the garden proper bright flowers add immensely and although any kind are beautiful, some judgment should be exercised in selecting colors and shapes that will harmonize with the color of the house."

* * *

Readers of the "Guide" will recall an article on "Quantity Estimating," by Mr. Sullivan W. Jones, of Palmer, Hornbostel & Jones, of New York City. Mr. R. Clipston Sturgis, the new President of the American Institute of Architects, writes "The Brickbuilder" the following expression of his opinion on Mr. Sullivan's views:

"Your article brings to general attention a matter of extreme interest. It has long been a matter of wonder to those familiar with the work of the quantity surveyor abroad that the waste, duplication of labor, and liability to serious mistakes and loss incident to our haphazard methods should be allowed to continue. The excuse contractors have given for the continuance of the system of individual quantity-taking has been that no two take off quantities or figure alike. Some figure brick per thousand laid, some figure the materials and the labor as separate items. Some might cube a building and submit a straw bid based on a cost per cubic foot. It is certainly time that this babel of methods and this guesswork bidding should be replaced by accurate methods generally accepted.

"The condemnation of the plans and specifications prepared by architects for bidding

is unfortunately based on a considerable majority of drawings and specifications so used; but it might also be stated with truth that a large number of architects have neither the education nor experience to justify their being classed as architects. The majority of men who in their respective communities command respect as architects of good standing produce working drawings and specifications which are fairly clear, exact and complete. Even these would, however, be benefited by the scrutiny of the quantity surveyor in taking off quantities.

"Many individual architects have given constructive thought to the active relationship existing between himself, the contractor and owner," and the standard documents of the American Institute of Architects were largely based on individual documents. It is not, therefore, quite fair to state the contrary so strongly, but one delights to hear it definitely stated that failure in a specification is due to 'want of intelligent preliminary investigation,' 'lack of accurate knowledge,' and lack of 'the power of expression.' These appear to be the very kernel of the matter, and it cannot be too often stated and insisted upon that writing specifications is a task of great difficulty requiring exceptional knowledge and no little literary acumen. The man who knows his subject and knows how to express himself will never take refuge behind blanket clauses.

"Anything that will encourage better drawings and specifications should receive the support of all architects—even if we never attain the Utopian ideal of wording that 'shall not be capable of more than one clear and definite interpretation by the bidders.' The interpretation of words in an extremely complex and difficult subject in a country so large, where the same word means different things in different parts of the country.

"To produce drawings and specifications such as are desired requires time, and the owner who wishes the doubtful advantage of competitive bids should be given clearly to understand that such bids are properly based on complete drawings and accurate specifications, and for this the owner must not only allow time, but must also know what he wants. In any comparison with Europe one must bear in mind that our building operations take very much less time than theirs, and that any system which requires English time for execution is out of the question here.

"The introduction of making one survey of quantities for all builders would eliminate much waste of time and put all on the same basis as to data. It is not clear, however, how a builder could estimate 'on bills of quantities and not on drawings and specifications.'

"The payment of the cost of the survey should surely come directly on the owner and not indirectly. He must pay it in the end, and as the work, like that of the architect, is done for him and in his interests, the surveyor should be paid by and be responsible to the owner. It is not clear why he should be paid on the basis of the cost of

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the work. It is no more laborious to take off plain marble ashlar than to take off the quantities of shingles. It would seem as if quantities rather than cost should be the basis of the charge, unless indeed it were frankly based on time.

"The general scheme proposed seems excellent and should be supported."

* * *

"From Mr. Ferdinand Parmentier, Secretary of the Southern California Chapter, A. I. A., the following was received:

"Some six years ago an attempt was made to introduce this system in Los Angeles. A firm of quantity surveyors established offices and carried on their practice for a period of six months or so, in accordance with the so-called English system of quantity surveying. The system, however, at the end of that time was abandoned, and the surveyors left our city for good. It developed from the information that I had received from architects, as well as contractors, that the practice of these quantity surveyors had not been carried on in a strictly regular manner, with the result that neither architects nor contractors have since that time been enthusiastic to reintroduce the system.

"I fully agree with Mr. Jones, and realize the unfortunate condition of affairs in the average architect's failure to properly coordinate his drawings and specifications, and his awkward attempt to establish his own infallibility by means of the wording of the contract, such a general custom making it impossible to effect any material uplift in the standard of the architect's relations to the owner and the contractor. The great difficulty that presents itself, however, seems to me to be the insurance of the honesty of a quantity surveyor. Mr. Jones suggests standard rules and units for the measurements of the executed work, but even then the possi-

bilities of irregular conduct on the part of the quantity surveyor for the interest of some particular contractor would be difficult to avoid. The Code of Rules as a tentative basis proposed for the working out of an American quantity system is practical and feasible in so far as Rules 2, 3, 4 and 5 are concerned, but I should find Rule 1 exceedingly difficult of enforcement in California.

"In giving the various aspects of the operation of the quantity system Mr. Jones presents a good illustration of the law of averages, establishing theoretically that by this system the owner would receive a more favorable bid from the successful contractor, thereby more than compensating him for the payment of the quantity surveyor's fee. In

this particular, perhaps, the majority of architects will agree with Mr. Jones. However, I believe that the average owner would not entertain the same confidence in this theory, but count on the contractor's competitive efforts to secure the work to neutralize any 'overhead' expenses that might be charged by him.

"This question of quantity surveying was brought up for discussion before a regular meeting of our Chapter held on September 10th, 1912, and elicited little or no enthusiasm among the members at that time. Personally, I think the system of quantity surveying, as outlined by Mr. Jones, is a good one, and I should like to see it adopted by architects throughout the country."

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**All the real estate, personal property, including stores, of the New Castle Portland Cement Company, located at New Castle, Lawrence County, Pa., have been purchased by the Lehigh Portland Cement Company. They have also purchased the New Castle & Butler Railway Company, an industrial line having connections with various industries at New Castle. The mill of the New Castle Portland Cement Company has four kilns with an annual capacity of 800,000 barrels, and the real estate consists of 1,000 acres, containing shale and limestone. The Lehigh Company has two plants at New Castle which have been in operation for several years. They have an annual capacity of 200,000 barrels. This additional plant, therefore, will give the Lehigh Company a capacity of 1,000,000 barrels.

With its new purchase the Lehigh Portland is now the owner of twelve mills. Five of these, at West Coplay, Ormrod and Fogelsville, are in Lehigh County, three at New Castle, two at Mitchell, Ind., one at Mason City, Ia., and one at Metaline Falls, State of Washington. The total annual capacity of the company is 12,000,000 barrels. The deal was authorized several weeks ago by the stockholders of the New Castle Company and is said to involve \$1,200,000.

**The sixth annual conference on city planning will be held at Toronto on May 25-27. The conference is divided into seven sessions, and speeches will be made by Frederick L. Olmsted, Andrew Wright Crawford, J. V. Davies, John A. McCollum, Lawrence Veiller, R. S. Gourlay and Henry V. Hubbard. Registration will be held at the conference headquarters, Hotel King Edward, noon, May 25, following which will be made a tour of inspection of the city and harbor.

**The Asbestos Protected Metal Company, Beaver Falls, Pa., is marketing a new form

of prepared roofing which has been named "Aegisroll." The body or base of this roofing is wool felt, impregnated by water-proofings and completely enveloped in a coating of asphalt compounds.

**The Master Builders' Association of New Jersey will hold its annual convention in Orange, N. J., April 23, 1914. V. P. Christofferson, Perth Amboy, N. J., secretary.

**Atlantic City has been chosen for the seventeenth annual meeting of the American Society for Testing Materials on June 30-July 4. Headquarters will be at the Hotel Traymore.

**The annual meeting of the American Road Builders' Association for the election of officers was held at the Hotel Astor, New York, N. Y., recently. The following officers and directors were elected: President, W. A. McLean, commissioner, Department of Public Works, Toronto, Ontario, Canada; first vice-president, George W. Tillson, consulting engineer, borough of Brooklyn, N. Y.; second vice-president, A. W. Dean, chief engineer, Massachusetts Highway Commissioner, Boston, Mass.; third vice-president, A. B. Fletcher, highway engineer, California Highway Commission, Sacramento, Cal.; secretary, E. L. Powers, editor "Good Roads," New York, N. Y.; treasurer, W. W. Crosby, consulting engineer, Baltimore, Md.

**The Shannon Manufacturing Company, makers of Chicago clothes dryers and domestic laundry equipment, has moved its offices, show rooms and factory to larger quarters at 150-154 West Twenty-second street, New York City. A. E. Morford, for years general sales manager, has been elected president of the company, and George P. Goodman, secretary.

**The Tyler Underground Heating System, Pittsburgh, Pa., announces the appointment of T. E. Keegan as the company's assistant

manager. Mr. Keegan is known to the heating trade, having been for nine years with the Consolidated Engineering Company, of Chicago. He will handle the company's line of underground heating materials, also low pressure traps, intermediate traps, water weighing machines for boiler house work, and condensation meters and hot water meters for central heating plant work, calling on the trade in all the large cities in the United States and Canada.

**The National Brick Manufacturers' Association has contributed 10,000,000 brick, freight prepaid and delivered on the exposition grounds, to the Exposition of Big Ideals to be held in New Orleans. This generous donation was decided on at the recent annual convention of the brick manufacturers in that city. The contribution will amount in round numbers to \$100,000. The brick will be ready for shipment by May 15.

**The Lord & Burnham Company, Irvington, N. Y., manufacturers of the Burnham line of steam and hot water boilers, announces the addition to its selling force of C. C. Johnson, formerly manager of the United States Radiator Corporation's Pittsburgh branch. Mr. Johnson was previously connected with the Herendeen Manufacturing Company.

**Charles T. Harris, sales manager of Fiske & Co., dealers in tapestry brick, of New York City, spent a few days in Houston, Texas, as the guest of H. C. Vandaveer, of the Vandaveer Clay Products Company. Mr. Harris is vice-president of Fiske & Co., who are the originators of the rough faced brick being used on buildings, and went to Houston in the interest of his product.

**The United States Radiator Corporation, Detroit, Mich., elected the following officers at its recent annual meeting: President, C. C. Jenks, succeeding R. J. Gross, who is retiring from active business; vice-president and treasurer, Henry T. Cole; secretary, E. C. Reed; assistant treasurer, W. E. Masher.

**The National Fire Protective Association will hold its eighteenth annual meeting in Chicago, May 5-6-7, at the La Salle Hotel. An interesting program has been mapped out by its officials.

**The annual meeting of the Master Steam and Hot Water Fitters' Association of Pennsylvania will be held in Wilkes-Barre, Pa., Tuesday, May 12, 1914.

**The Security Cement and Lime Company, Hagerstown, Md., reports business as picking up remarkably since the advent of more seasonable weather. Shipments of cement and chemical lime are running a little behind as compared with the same month last year, but agricultural lime and hydrate shipments are going out with a rush and the outlook is for a record breaking season.

**The National Association of Building Owners and Managers will convene at Duluth, July 14 to 17.

**At the annual meeting of the National Fireproofing Company, Sidney F. Heckert was elected a director, increasing the number of directors to twelve. T. Hart Given resigned as a director some time ago, and Henry M. Keasbey, a vice-president of the company,

was elected to the place. Mr. Keasbey and the other retiring directors were re-elected.

**E. W. Haedrick, Mariner and Merchant Building, Philadelphia, reports business booming up in the sand and gravel trade. He is looking for a more prosperous year during 1914 than was experienced during 1913, and also expects to exceed some of the largest contracts he had last year, one of these being a contract with the General Electric Company for 25,000 tons of sand.

**A. Y. Gowan, president of the Lehigh Portland Cement Company, returned with Mrs. Gowan on March 28 from a short pleasure trip to Europe. They went directly from New York City to their home in Cleveland.

**David M. Kirk, vice-president of the Crescent Portland Cement Company, Wampum, Pa., has returned to his home in Pittsburgh, after spending the winter with his family in "The Breakers" in Florida.

**One of those exasperating errors which are so simple in themselves but which are the cause of so much needless trouble, has been discovered in the separate contract law recently passed in Pennsylvania. Probably through a typographical error, a comma was inserted between the words "heating" and "ventilating" in the law so that it reads that separate specifications shall be drawn and separate bids secured for the "heating, ventilating, electrical work," etc., of public buildings in that State. As a result, it has been necessary to separate the heating from the ventilating specification, and, moreover, to secure separate bids on each part of the work. In the case that has come to our notice, the Gordian knot has been cut by arbitrarily drawing a line through the plans and calling the work on one side of the line the heating work, and that on the other the ventilating work.

New Ideas, Materials and Devices

Innovations in Material and Equipment That Merit the Interest of Architect and Building Owner—A Running Resume of Novelties More or Less Recent.

Leonard Ideal Ventilating Window:

A new type of window sash so constructed that the outside air may enter at the meeting rails and at the top of the upper sash has recently been placed on the market by the Leonard Sheet Metal Works, Inc., Hoboken, N. J. It is known as the Leonard Ideal ventilating window. The sashes can be reversed so that the exterior side will be turned towards the interior. No weights are required, and the sashes can be pivoted at any desired point in the frame. Still another feature of this construction is that the top sash can be left open at the top for ventilation and still be locked at the meeting rail. When both sashes are locked, the window corresponds in tightness to the ordinary window sash and, it is stated, requires no weather stripping. The manufacturer states that it has been passed by the National Board of Fire Underwriters.

* * *

A Fireproof Window:

The fire insurance underwriters, architects, and building experts throughout the country have made exhaustive efforts to produce a window that is absolutely fire resisting. As a matter of fact, the window is one of the weakest spots in latter-day construction. A window manufactured by the Foster Sheet Metal Works, of Springfield, Ill., has been put under test by the Underwriters' Laboratories, and has been found to have exceptional resisting virtue. This is manufactured of metal frame and wire glass. The galss in the window is of special rool over a perfectly taut wire mesh, which is strong enough to withstand the action of heat, but not so heavy as to make conspicuous the wire buried in the plate.

A New Asphalt Shingle Idea:

The Winthrop Asphalt Shingle Company, 10 Sixty-first street, Argo, Ill., are manufacturing a product known as Winthrop Tapered Asphalt Shingles. This product, which embodies a new idea, has met with especial favor among architects, builders' supply dealers and building owners. The shingle is made tapering with a thick edge at the butt where the hardest wear comes, thus giving to the shingle an extraordinarily long life, as well as decreasing the dead weight of the roof. They are laid with ordinary shingle nails, their regular size permitting them to be laid with greater rapidity. The manufacturers of this product are sending to the trade a booklet which describes in detail the manufacture of this shingle, with illustrations of its application to numerous buildings and citing its many good qualities. The booklet also tells how to test these shingles, giving reasons why it will outlast the rest of the house.

* * *

Neponset Shingles:

Bird & Son, East Walpole, Mass., are the manufacturers of builders' specialties, particularly in the roofing material line, and a product recently developed with a marked degree of success is the "Neponset Shingle." It is stated that this shingle, which is made from Neponset roofing, is not by any means merely a piece of ready-roofing. Each shingle is carefully built so that it is thick at one end and thin at the other and on the roof lies just like a wooden shingle. Each shingle is of uniform size, 12¾ inches long by 8 inches wide, and a slot is cut in each shingle so as to give a decided shingle effect to the roof. One of the noteworthy features of this shingle is that only 452 are required to cover 100

square feet of surface, and on account of this fact these can be laid more quickly than wooden shingles. The manufacturers will furnish samples and particulars on request.

COST OF OFFICE BUILDINGS.

33 Cents Per Cubic Foot Considered a Fair Working Average.

William C. Hazlett, architect and engineer, 1133 Broadway, New York, considers that the cost of constructing first-class office buildings should not exceed 35 cents per cubic foot. In an article on the economical planning and designing of high office buildings which he prepared for "Engineering and Contracting" (Chicago), Mr. Hazlett agrees that the cost of buildings of this class and the opportunity afforded for an economical reduction of the cost are matters of interest and moment to the investor. As it would be useless to compare the gross cost of two buildings varying in size, scheme, and numberless conditions, or to predicate anything about gross cost, unless all conditions are known, such a comparison is not attempted.

There is, however, he says, a means of comparison—by the unit cost—which may be useful, and that unit has been, by convention, assumed to be the cost per cubic foot. In other words, we can safely compare the cubic foot costs of buildings if the conditions are known. In arriving at the cost, however (which cost is the gross cubic contents multiplied by the price per cubic foot), we must agree upon some method of determining the gross cubic contents. The following is thought to represent the best present practice: Multiply the area of the plot by the distance from the average ground level to a point 1 foot below the lowest basement floor; add to this the cubic contents of the walk vaults, areas, etc.; then add to this sum the cubic contents of the building above the average ground level, omitting courts; the sum will give gross cubic contents.

The cost of these buildings may be further differentiated thus: Gross cost, which is the sum that the owner has expended at completion and which includes all fees, commissions, interest charges, taxes, etc.; and net cost, which is the builder's charge, including his profit and the designer's fee.

Without going into an exhaustive investigation of this matter and without quoting unverified data, Mr. Hazlett says it may be assumed that the cost of first-class buildings of this kind should not exceed 35 cents per cubic foot. By reason of a fortuitous combination of circumstances, this cost may be reduced to 30 cents per cubic foot. Perhaps 33 cents per cubic foot may be a fair working average, but no building of this kind should cost more than the first-named figure. It is quite true that many, in fact most, buildings have been built at a greater cost; but the reasons for this increased cost lie within the limbo of an economical and logical distribution of the plan, the structure of that plan, and the machinery which goes with it.

The exterior finish of the building may greatly affect the cost.

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A ROBERT MORRIS MEMORIAL COMPETITION.

The Robert Morris Memorial Commission has sent from Philadelphia the following letter of invitation to American sculptors to enter the competition for designs which is open to any sculptor who is an American citizen:

"Dear Sir:

You are invited to submit a design for the Robert Morris Memorial in accordance with the program enclosed herein.

The Committee desires to give a free scope to your ability, and every opportunity to create a design that shall fitly symbolize the eminent services of the financier of the Revolution and shall, from an artistic standpoint, deserve the fullest approval of competent judges."

Accompanying the letter of invitation a preliminary program states that "it is desired that the Memorial shall include a portrait statue of Robert Morris in bronze, with a suitable architectural setting." The designs submitted are to be in the form of drawings at a uniform scale of two inches to the foot and a typewritten description of the design and material must accompany the drawing. A competitor may submit more than one drawing and may also send photographs of work already executed by him.

Drawings with the accompanying descriptions must be deposited with the committee between May 1st and May 31st, and are to be sent prepaid and properly addressed to the Pennsylvania School of Industrial Art, Broad and Pine streets, Philadelphia.

The cost of the Memorial, placed in position and complete, shall not exceed the sum of \$28,000, which sum is to include the erection of a full sized model in staff at the site indicated.

The Jury of Award will examine the designs submitted and report on the same in writing to the Commission within thirty days after June 1st. Four competitors will be invited to enter a second competition in which each competitor shall receive the sum of \$500 on the submission of a model representing his further study of the subject.

Along with the letter of invitation is sent a short biographical sketch of Robert Morris, in which the compiler, H. M. Edwards, Esq., the chairman of the Commission, suggests that any sculptor, "intending to submit a sketch for the Robert Morris Memorial or Monument, will naturally depend upon his own inspiration in seeking the most dramatic in-

cidents or episodes in the life of Robert Morris," a life, one may add, full of possibilities in that respect.

It is most gratifying that at last, after long years of increased neglect by the city and State in which his life was mainly passed and his most telling and valuable work achieved, a tardy memorial recognition is to be made of "one of the greatest patriots America has ever produced," who "is entitled by his virtues, his sacrifices and his abilities to stand in the front rank of noble and historic Americans."

OLD WALL PAPERS.

Wall papers are now universally accepted by all classes of society as a mural decoration for enriching a plain plaster surface. It may not, however, be generally known that they are of comparatively recent origin. It is probable that when first introduced they were intended as cheap imitations of tapestry and other textile hangings, says the "Decorative Furnisher." Wall papers did not come into common use in Europe until the eighteenth century. Before that date wall papers were all hand-printed on small squares and they were extremely difficult to hang with good effect, as the surface was marred with innumerable joints. Under the circumstances, it is not surprising to find that the older methods of treating wall surfaces by tapestry, wood paneling and stamped leather were not easily superseded.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

RECENT TRADE LITERATURE.

"Through the Home of Tapestry Brick," booklet 28, issued by Fiske & Co., Inc., 25 Arch street, Boston, and Arena Building, New York, describes in comprehensive detail the new home of "Tapestry" brick on the top floor of the Arena Building, No. 40 West Thirty-second street, New York City. Fiske & Co. have also issued booklet 29, entitled "Tapestry Brick Tilework for Floors and Interior Walls," describing the application of "Tapestry" brick to a number of beautiful buildings in New York and other cities.

Volume 1, Number 1, of "The Ceresit Waterproofer," a monthly pamphlet of sales talks for Ceresit dealers, published by the Ceresit Waterproofing Company, 110 South Dearborn street, Chicago, Ill., will be sent to interested parties.

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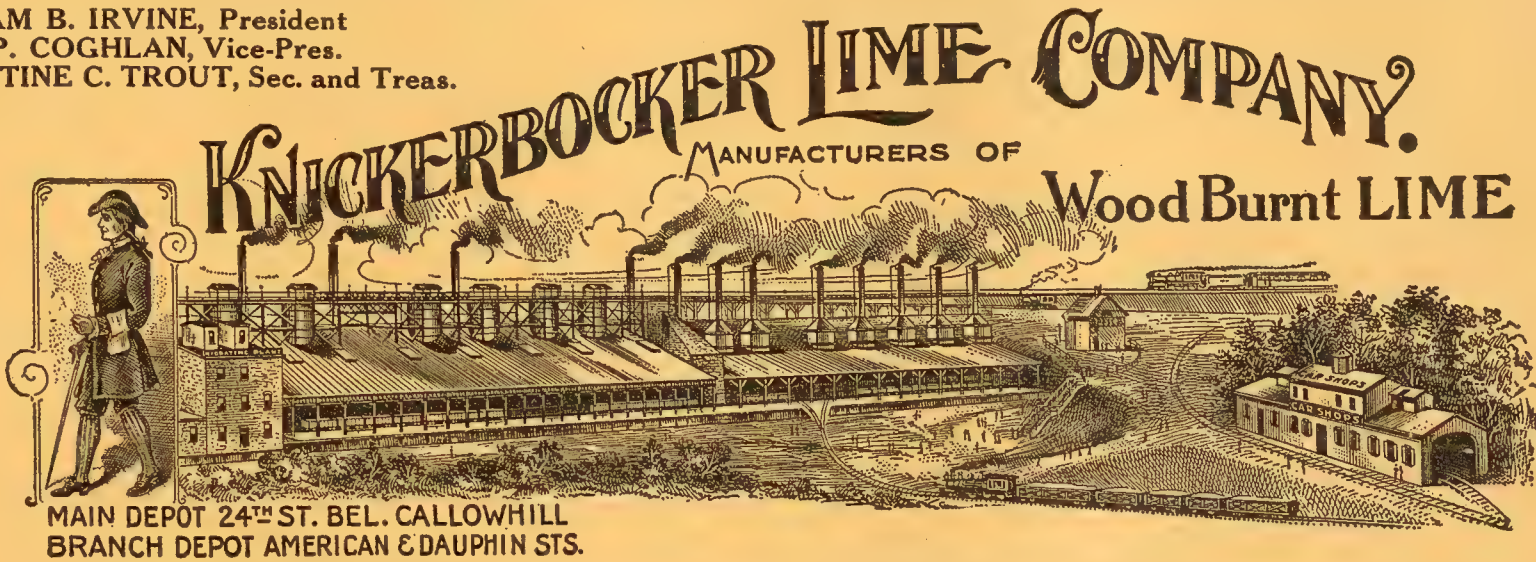
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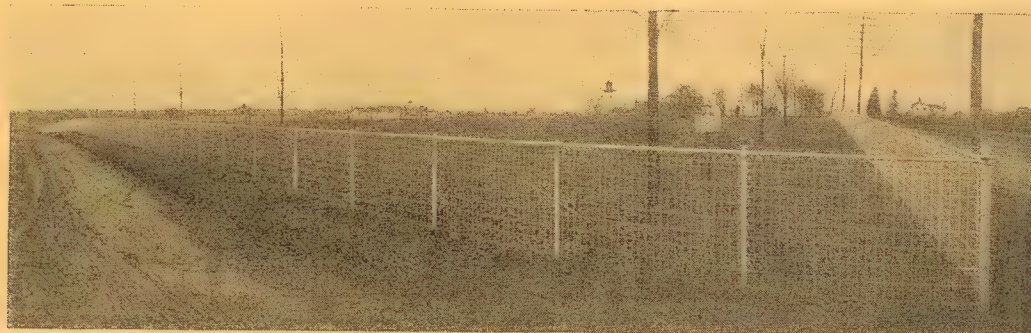
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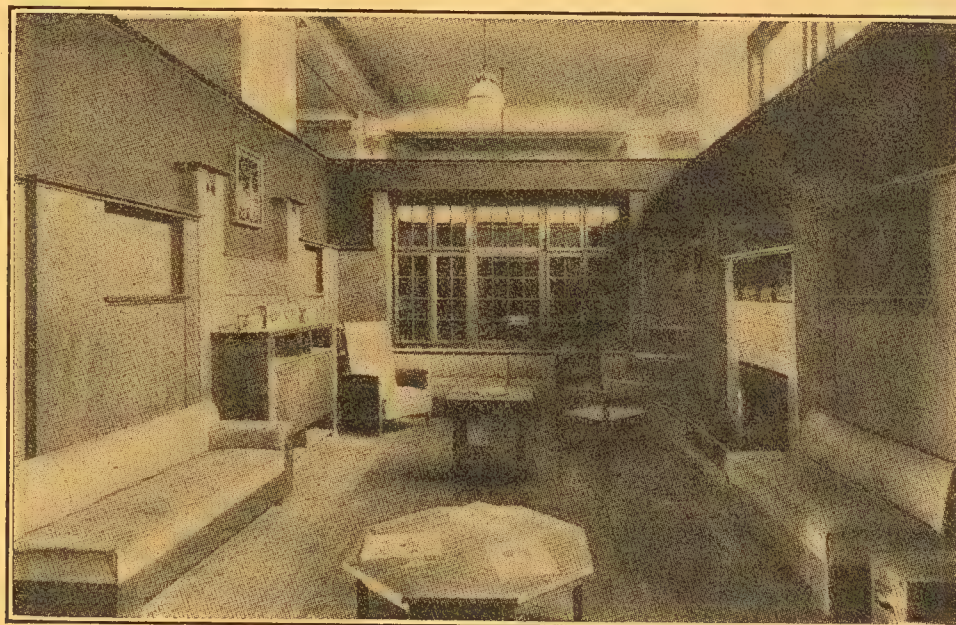
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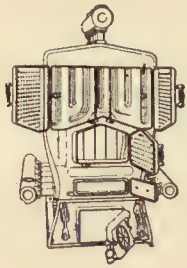
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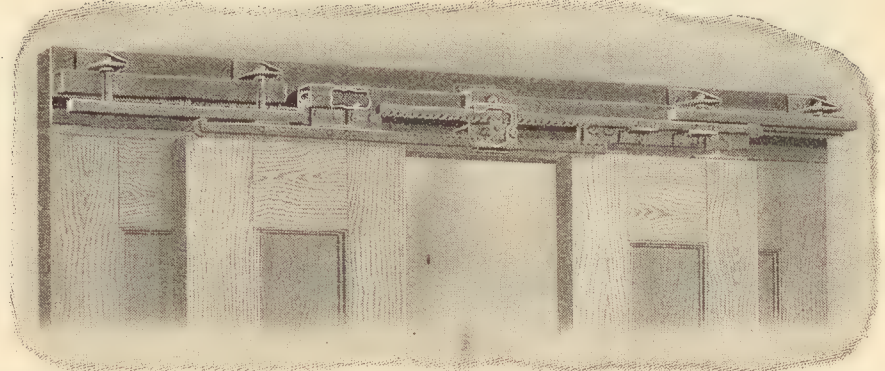
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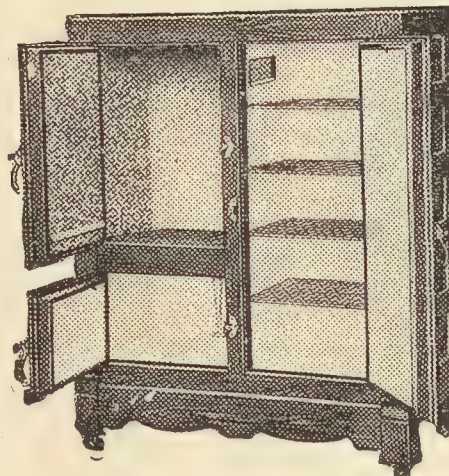
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Vol. XXIX., No. 17.

PHILADELPHIA, WEDNESDAY, APRIL 29, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, St. Martin's, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street, Philadelphia. Owner, Dr. George Woodward, North American Building. Stone and plaster, 2½ stories, 22x35 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architect taking bids due May 1st. The following are figuring: J. E. Walt, 204 East Willow Grove avenue; Irvin Faut, 4228 Sydenham street; Henry L. Brown, 1714 Sansom street; Pringle Borthwick, 8018 Germantown avenue; W. J. Gruhler Co., 219 High street; F. Elvidge & Sons, 5522 Germantown avenue.

Church Building, Tenth and Rockland streets. Architect, J. Franklin Stuckert, 112 South Forty-third street. Owners, Memorial Reformed Episcopal Church, care of Thomas Martindale, Tenth and Market streets. Stone, 1 and 2 stories, 90x140 feet, slate roof, steam heating, electric lighting. Plans in progress. Bids in about three weeks.

Factory Building, Indiana avenue and Croskey street. Architects, Anderson & Haupt, Drexel Building. Owners, Atlantic Embroidery Co., 2119 Toronto street. Reinforced concrete, 1 story, 90x120 feet, slag roof, steam heating, electric lighting. Revised plans in progress.

Children's Ward, Twenty-second street and North College avenue. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, Woman's Hospital of Philadelphia, on premises. Brick and steel, fireproof, 2 stories, slag roof, steam heating, electric lighting, hollow tile and concrete fire proofing. Plans in progress. (Note change in owner's name.)

Church, Paul and Ruan streets, Frankford, Philadelphia. Architect, H. G. Hammer, Glenside, Pa. Owner, Mater Dolorosa Italian R. C. Church, care of Rev. Cosmos Bruni, 4330 Paul street. Stone, 1 story, 125x53 feet, slate roof, steam heating, electric lighting. Architect taking bids. The following are figuring: W. Beaumont, Stephen Girard Building; Melody & Keating, Bailey Building; J. Paponi, Edge Hill, Pa.; Antonio Donato, 809 South Eighth street; Sabrizzi Bros., Frankford, Phila.

Church (add.), Frankford avenue and Let-

terly street. Architects, Stearns and Castor, Stephen Girard Building. Owner, Frankford Avenue Baptist Church, care of C. P. Biggins, 1829 Harlan street. Stone, 2 stories. Plans in progress. Architect ready for bids in a few days.

Residence, Sedgwick Farms, Germantown. Architect, Bart Tourison, Land Title Building. Owners, Sedgwick Farms Co., on premises. Stone, 2½ stories, 26x40 feet, slate roof, hot water heating, electric lighting, hardwood floors. plans in progress.

Bakery (alt. and add.), 1433 North Twelfth street. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Philadelphia Home Made Bread Co., on premises. Brick, 2 stories, consists of interior alteration and addition. Architects have received bids.

School and Synagogue, Church lane and Chew street, Germantown. Architects, Sauer & Han, 1112 Chestnut street. Owners, Jewish Foster Home, on premises. Brick and terra cotta, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Architects taking bids due April 30th. A. Whitehead, Inc., 1624 Latimer street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1210 Sansom street; Samuel Harting, 20 East Johnson street; H. E. Grau Co., 1707 Sansom street; J. Sims Wilson Co., 1125 Brown street; Lam Building Co., 1001 Wood street; Freund-Seidengach Co., Bulletin Building, are figuring.

Residence, Sixty-fourth street and Church road. \$18,000. Architect, Charles Barton Keen, Bailey Building. Owner, A. Helmar Englund, Seventeenth and Cambria streets. Brick, 2½ stories, 50x60 feet, tile roof, hot water heating, electric lighting, hardwood floors. Plans completed. Architect will take bids in a few days.

Hospital (alt. and add.), Broad and Wolf streets. Architects, Stearns and Castor, Stephen Girard Building. Owner, Methodist Episcopal Hospital, on premises. Consists of interior alterations and additions, metal lath, fire proof. Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Manufacturing Building (add.), Manayunk, Philadelphia. Architects, Ed. F. Durang &

Sons, Twelfth and Chestnut streets. Owner, Nixon Paper Co., on premises. Brick and concrete, 1 story, 100x125 feet. Plans in progress.

Bakery (alt. and add.), Seventh street and Allegheny avenue. Architect, William H. Wooters, 816 West Allegheny avenue. Owner, W. G. Pfeiffer, on premises. Brick, slag roof, hot air heating, electric lighting. Plans in progress.

Bank (alt. and add.), Twenty-first and Lombard streets. Architect, W. D. Haddock, care of John Wanamaker, Thirteenth and Market streets. Owner, First Penny Saving Bank, on premises. Brick, 3 stories, 32x83 feet, slag roof (heating and lighting, reserved, metal ceilings. Architect taking bids due May 2nd. James G. Doak & Co., Crozer Building; James Johnston, 1721 Ludlow street; William R. Dougherty, 1610 Sansom street, are figuring.

Garage, Oak Lane, Pa. Architect, private plans. Owner, W. D. Haddock, care of John Wanamaker, Thirteenth and Market streets. Frame, 1 story, 20x29 feet, shingle roof, electric lighting (heating, reserved). Owner taking bids. William J. Gruhler, 219 High street, is figuring.

Laundry Building, Watts and Fitzwater streets. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Woman's Southern Homoeopathic Hospital, on premises. Brick and terra cotta, 2 stories, 30x40 feet, slag roof (heating and lighting, reserved), damp proofing. Architect taking bids due May 4th. William R. Dougherty, 1610 Sansom street; H. H. Burrell, 1202 Chancellor street; H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1027 Cherry street; Harrison C. Rea Co., 1027 Wood street; Ketcham & McQuade, 1029 Brown street; F. G. Myhlertz, 1723 Cherry street; R. C. Ballinger Co., 218 North Thirteenth street, are figuring.

Theatre, Fifty-second and Market streets. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owner, Alpha Realty Co., care of architect. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting, metal lath, water proofing. Architect taking bids due April 30th. George

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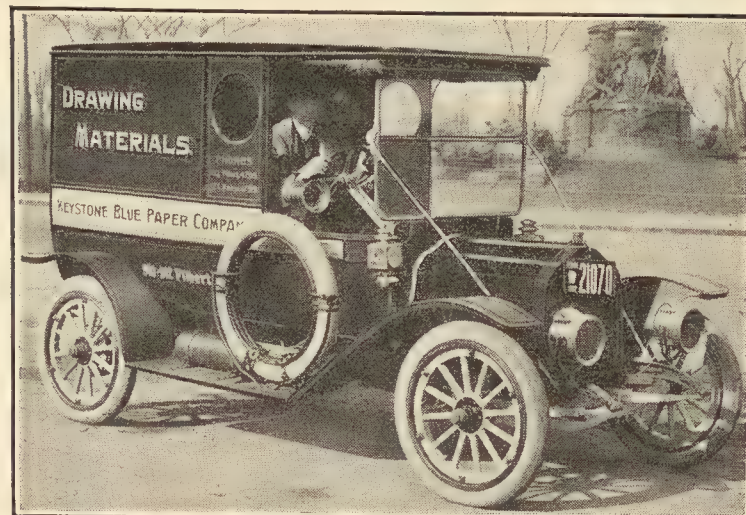
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Hogg, 1634 Sansom street; Cramp & Co., Denckla Building, are figuring.

Hospital (add.), Thirty-fourth and Spruce streets. Architects, Brockie and Hastings, 1713 Sansom street. Owners, University of Pennsylvania, on premises. Brick, stone and steel, fireproof, 3 stories and basement, 45x105 feet, slate roof (central plant for heating and electric light, reserved), elevators, metal sash and frames. Architects taking revised bids Due May 4th. Irwin & Leighton, 126 North Twelfth street; George & Borst, 277 South Eleventh street; Pomeroy Construction Co., 1609 Ransstead street, are figuring.**Service Building**, Twenty-third and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenburg, Morris Building. Brick and terra cotta, 2 stories, 100x240 feet, slag roof, steam heating, electric lighting. Plans completed. Architect ready for bids.**Chapel and Convent**, Twenty-second and Green streets. Architect, Paul Managhan, Drexel Building. Owners, Sisters of Perpetual Adoration, care of architect. Stone, 1 and 3 stories, 41x129 feet, slate roof, steam heating, electric lighting. Architect taking bids, due May 8th. William McShane, 417 South Thirteenth street; Thomas Reilly, 1616 Thompson street; Melody & Keating, Bailey Building; John P. McShain, 631 North Seventeenth street; H. E. Baton, Twelfth and Sansom streets; William R. Dougherty, 1610 Sansom street, are figuring.**Power House**, North Philadelphia Station. Architect, W. H. Cookman, Broad Street Station. Owners, Pennsylvania Railroad Company, Broad Street Station. Brick and terra cotta, 1 story and basement, 37x56 feet, slag roof, metal lath, steel frames and sash. Owners taking bids, due May 5th. Monaghan & Losse, 214 South Twelfth street; W. W. Lindsay, Harrison Building; Irwin & Leighton, 126 North Twelfth street; Charles Gilpin, Harrison Building; Roydhouse-Arey Company, Fidelity Building; John McKenna & Son, 1032 Race street; F. A. Havens Company, 845 North Nineteenth street; Brann & Stuart, Commercial Trust Building; Wells Const. Co., Witherspoon Building, are figuring.**Residence**, Chestnut Hill, Philadelphia. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Mrs. J. C. Smith, 3114

Midvale avenue. Stone, 2 stories, 32x58 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Garage and Stable, Germantown avenue and Greene street. Architects, Heacock & Hokanson, Bailey Building. Owner, A. C. Jackson, care of Miller Lock Company, 4523 Tacony street. Stone, 2 stories, 25x40 feet, slate roof, steam heating, electric lighting. Owner taking bids, due April 30th. F. B. Davis, 35 South Seventeenth street; F. A. Havens Company, 845 North Nineteenth street; William H. Eddleman, 453 Green lane, and Samuel Harting, 22 East Johnston street, are figuring.**Flat Houses** (4), Cheltenham avenue, east of Baynton street, \$20,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, S. D. Large Estate, 352 Church lane. Brick, 2 stories, 18x70 feet each, slag roof, hot water heating, hardwood floors, electric lighting. Plans in progress.**Service Building**, 2532-34 North Broad street. Architect, private plans. Owners, Kahn & Greenberg, Morris Building. Lessee, The Touraine Company, Broad and Huntingdon streets. Brick, concrete and terra cotta, 3 stories, 50x155 feet, slag roof, steam heating, electric lighting. Owners taking bids. Harry Gill, Jr., 2515 Germantown avenue, and Freund-Seidenbach Co., Bulletin Building, are figuring. Owners are also taking sub-bids.**Bank** (alt. and add.), Twenty-first and Bainbridge streets. Architect, W. D. Haddock, care of John Wanamaker. Owners, First Penny Saving Bank, on premises, care of George Embick. Brick, 3 stories, 32x83 feet, slag roof (heating and lighting reserved), metal ceilings. Architect taking bids, due May 2nd. William R. Dougherty, 1619 Sansom street, is figuring, in addition to those previously reported.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), American street and Susquehanna avenue. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Dungan, Hood & Co., 2100 North American street. Brick, consists of 1 story addition to present building, slag roof, steam heating, electric lighting. Contract awarded to P. Haibach Construction Co., Twenty-sixth and Thompson streets.

Store (alt. and add.), Germantown avenue and Silver street. Architect, W. H. Wooters, 816 West Allegheny avenue. Owner, Brill Bros., on premises. Brick, 3 stories, slag roof, hot water heating, electric lighting, elevators, metal ceilings. Contract awarded to Harry P. Werner, 3245 Germantown avenue.

Garage, St. Martin's, Philadelphia. Architects, Thomas & Churchman, 130 South Fifteenth street, Philadelphia. Owner, Samuel L. Logan, Moreland and Towanda streets. Stone, 1½ stories, 23x30 feet, slate and shingle roof, electric lighting, hot water heating. Contract awarded to F. Elvidge & Son, 5522 Germantown avenue.

Parochial School, Twenty-ninth street and Allegheny avenue. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Corpus Christi R. C. Church, on premises. Stone, 3 stories, 68x130 feet, slag roof (heat and light, reserved). Contract awarded to W. J. McShane, 417 South Thirteenth street.

Warehouse and Cold Storage Plant, 3525 Germantown avenue. Architect, private plans. Owner, McCray & Hunter, on premises. Brick and steel, 2 stories, 45x96 feet, slag roof (lighting and elevators, reserved). Contract awarded to Monaghan & Losse, 214 South Twelfth street.

Factory, Tenth and Dakota streets. Architect, private plans. Owner, A. C. Krumm & Son, 1012 Dakota street. Brick, 3 stories, 35x85 feet, slag roof, metal sash and frames (heating and lighting, reserved). Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

Pressure Tanks and Enclosures, 919 Walnut street. Architects, Stewardson & Pafe, 320 Walnut street. Owner C. C. Harrison, on premises. Hollow tile, metal lath, water proofing. Contract awarded to J. B. Flounders, 1329 Arch street.

Store (alt. and add.), 216 North Twelfth street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Frank Ambrogi, 215 North Twelfth street. New front, bath room and kitchen (heating, reserved). Contract

awarded to H. C. Dahl, 21 231 South Eighth street.

Residence, St. Martin's, Philadelphia. Architect, Herbert C. Wise, 133 South Twelfth street. Owner, Theodore L. MacDowell, 2125 Uber street. Brick and plaster, 2½ stories (heat and lighting, reserved). Contract awarded to M. S. Oberholtzer, 5524 Pulaski avenue.

Club (alt. and add.), Old York road, Philadelphia. Architect, Oliver R. Parry, 1727 Chestnut street. Owner, Old York Road Country Club, on premises. Frame, 2 stories, slate roof, steam heating, electric lighting, hardwood floors. Architect will take revised bids, and H. E. Baton, Twelfth and Sansom streets, and A. Whitehead, Inc., 1624 Latimer street, will figure.

Residence (alt. and add.), School lane, Germantown. Architects, Broekie & Hastings, 1713 Sansom street. Owner, W. G. Warden, Witherspoon Building. Stone, 2½ stories, shingle roof, electric light, hardwood floors. Contract awarded to School Lane Land Co., Witherspoon Building.

Fish Hatchery, Torresdale, Pa., \$25,000. Architect, J. C. M. Shirk, 421 Chestnut street. Owners, State of Pennsylvania, Department of Fisheries, Harrisburg. Brick, 2½ stories, 30x40 feet, tile roof (heat and light reserved). Contract awarded to P. J. Hurley, 1233 Cherry street.

Nurses' Home, Penn near Chew street, \$60,000. Architect, Louis Carter Baker, 34 South Seventeenth street. Owners, Germantown Dispensary and Hospital, on premises. Brick, stone and terra cotta, fireproof, 3 stories, 61x136 feet, tile and slag roof, electric lighting (heat reserved), composition floors, safety treads, gypsum blocks, elevators, waterproofing, metal lath, metal sash and frames, kalamein doors. Contract awarded to James G. Doak & Co., Crozer Building.

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Residences (4), Bethlehem, Pa., \$6,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Forrest Speck, Bethlehem, Pa. Brick, 2½ stories, 48x40 feet, slate roof, hot air heating, gas and electric lighting. Owner taking sub-bids.

School (add.), Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Board of Education, Bethlehem, Pa. Brick, 3 stories, 22x22 feet, slate roof, gas and electric lighting. Plans about completed. Owners will take bids in a few days.

School Building, West Reading, Pa., \$25,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, borough of West Reading. Brick, 2 stories, 75x125 feet, slag roof, electric lighting, heating undecided. Plans in progress.

Residence, Hyde Park, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Mrs. David Hinkle, Hyde Park, Pa. Brick, stone trimmings, 3 stories, 34x32 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors, tile work. Plans about completed. Architects will take bids in a few days.

Residence, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, E. F. Hendricks, Reading, Pa. Brick and stucco, 3 stories, 36x33 feet, asbestos shingle roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans about completed. Architects will take bids in a few days.

Relief Building, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Reading Bayone Steel Casting Company, Reading, Pa. Brick, 3 stories, 38x53 feet, slate roof, hot water heating, gas and electric lighting. Plans about completed. Architects will take bids in a few days.

Residences (14), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Chester Realty and Construction Company, Chester, Pa. Brick, 2 stories, 25x35 feet each, slate and slag roofs, hot water heating, electric lighting. Plans completed. Owners ready for sub-bids.

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PENNSYLVANIA

Construction News

Garage, Langhorne, Pa., \$2,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Ellwood Watson, Langhorne, Pa. Stone, 1 story, 20x40 feet, slate roof, hot water heating, electric lighting, concrete floors. Revised plans in progress.

Residence, Conshohocken, Pa. Architect, V. Grater, Norristown, Pa. Owner, H. C. Pugh, Conshohocken, Pa. Stone, 2½ stories, 40x42 feet, slate roof, vapor vacuum heating, electric lighting. Owner has received bids.

Store and Dwelling, Port Carbon, Pa. Architect, W. D. Hill, Pottsville, Pa. Owner, J. Cantwell, Port Carbon, Pa. Brick and terra cotta, 3 stories, 23x77 feet, slag roof, hot water heating, electric lighting, tile and wood floors. Architect taking bids.

Fraternity House, State College, Pa. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owners, Phi Gamma Delta, State College Pa. Brick and stone, 2½ stories. Plans in progress.

Residence, Merion, Pa. Architect, Herbert J. Wetherill, Brown Brothers' Building, Fourth and Chestnut streets, Philadelphia. Owner, Herbert J. Wetherill, Brown Brothers' Building, Philadelphia. Stone and plaster, 2½ stories, 29x41 feet, slate roof (heat and electric lighting reserved). Architect taking bids, due April 30th. H. E. Baton, Twelfth and Sansom streets, Philadelphia; Thomas M. Seeds, Jr., 1207 Race street, Philadelphia; Alfred James, Bala, Pa.; Isaac Shoemaker, 6910 Mower street, Germantown avenue, are figuring.

Dairy Buildings (3), Wyebrook, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, William Gable, on premises. Frame, 1 and 2 stories, 25x32 feet and 40x135 feet, shingle roof, electric lighting. Plans in progress.

School, Palmyra, Pa., \$65,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owners, Board of Education, Palmyra, Pa. Brick, 2 stories and basement, 120x166 feet, slag roof, steam heating, electric lighting. Bids due April 30, at noon. M. R. Fisher, Secretary of Palmyra School District, will take bids.

Residence (alt. and add.), Ardmore, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, J. Crosby Brown, Ardmore, Pa. Stone and plaster, 2½ stories, slate roof, hot water heating, electric lighting. Plans in progress.

Service Building, Pittsburgh, Pa. Architect, John Graham, Detroit, Mich. Owners, Ford Motor Car Company, Detroit, Mich. Concrete and terra cotta, 5 stories, 121x168 feet, composition roof (heating and lighting re-

served), metal lath, metal sash, metal doors and trimmings, dampproofing. Architect received bids April 27th.

School, Norristown, Pa., \$50,000. Architect, Oliver R. Parry, 1723 Chestnut street, Philadelphia. Owners, Board of Education, Norristown, Pa. Brick, 2 stories and basement, 80x157 feet, composition roof (heating and lighting reserved), dampproofing, waterproofing, metal lath. Owners taking bids, due May 4th. The following are figuring: James G. Doak Company, Crozer Building; P. J. Hurley, 1233 Cherry street; F. Roe Searing, Perry Building; Burd P. Evans Company, Thirteenth and Wallace streets; Alex. Chambley, 243 South Tenth street, all of Philadelphia, and W. J. Elliott, Coatesville, Pa.; F. R. Heavner, M. F. Lawler and D. E. Templeton, all of Norristown, Pa.

Residence, Cynwyd, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, W. A. Jarden, 324 South Fifty-second street. Stone and plaster, 2½ stories, 37x42 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due May 2nd. E. J. Heddon, Penn Square Building; A. L. Fretz & Sons, 1222 Chancellor street; M. W. Young, Overbrook, Pa.; J. E. Kearney, 327 North Sixty-third street; J. E. Wolff, 620 North Fortieth street, all of Philadelphia, are figuring.

School Building, Dorranceton, Pa. Architects, Pettebone & Lewis, Second National Bank Building, Wilke-Barre, Pa. Owners, School Board, William Shortz, Secretary, Dorranceton, Pa. Brick, 2 stories, 110x60 feet, slate roof, indirect heating, electric lighting. Plans completed. Owners will take bids in one week.

Garage, Fourth and Norwegian streets, Pottsville, Pa., \$3,500. Architect, W. D. Hill, Pottsville, Pa. Brick and terra cotta, 1 story, 32x40 feet, slag roof, steam heating, electric lighting, wood and cement floors. Architect taking bids, due May 4th.

Schools (2), Tamaqua, Pa., \$14,000. Architect, W. H. Lee, Shamokin, Pa. Owners, School Board, Tamaqua, Pa. Brick, 2 stories, 50x90 feet, slag roof, maple floors. Plans in progress.

Hotel, Sunbury, Pa., \$50,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Dr. F. E. Drumheller, Sunbury, Pa. Brick, stone and terra cotta, 60x180 feet, asbestos roof, steam heating, electric lighting, tile, wood and composition floors. Architect taking bids.

School Building, Brownstown, Pa., \$16,000. Architect, Howard B. Emery, Wilkes-Barre, Pa. Owners, Pittston Township School Dis-

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trict, Pittston, Pa. Wood, 3 stories, 60x65 feet, slate roof, steam heating, electric lighting, hardwood floors. Plans in progress.

School Building, Dupont, Pa., \$15,000. Architect, Howard B. Emery, Wilkes-Barre, Pa. Frame, 3 stories, 65x60 feet, slate roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Colestock Old People's Home, Quincy, Pa., \$23,000. Architect, M. I. Kast, Harrisburg, Pa. Owners, U. B. Orphanage and Home, Quincy, Pa. Stone or brick, 2½ stories, 50x104 feet, slate roof, steam heat, electric lighting. Plans in progress. Bids will be received about May 7th.

Church, Washburn street, Scranton, Pa., \$50,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owners, Washburn Street Presbyterian Church, Scranton, Pa. Frame, stucco and terra cotta, 80x100 feet, tile roof, steam heating, electric lighting. Bids will be taken in about one month.

Farm Building, Elkins Park, Pa. Architects Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, George F. Tyler, 131 South Fourth street, Philadelphia. Frame, 1½ stories, 53x48 and 40x16 feet, shingle roof (heating and lighting, reserved). Architects have received bids.

Residence, Latham Park, Pa. \$20,000. Architects, Neff & Thames, Heed Building, Philadelphia. Owner, John E. Cochrane, Kensington avenue and Butler streets, Philadelphia. Stone and timber, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors. Architects taking bids due April 30th. The following are figuring: are figuring: James G. Doak & Co., Crozer Building; John F. Davies, 1208 Chestnut street; Smith-Hardican Co., 1606 Cherry street; John Morrow Construction Co., 308 South Twelfth street; Specht & Sperry, Heed Building; William J. Gruhler Co., 219 East High street; H. E. Baton, Twelfth and Sansom streets; John N. Gill Co., Heed Building, all of Philadelphia.

Dormitories (2), Sprin City, Pa., \$120,000. Architect, P. H. Johnson, Land Title Building. Owner, Eastern Pennsylvania State Institution for Feeble Minded, care of George W. French, Harrisburg, Pa. Brick, fireproof, 3 stories, 57x115 feet, 64x125 feet, slate roof, electric lighting, steam heating, damp proofing, metal weather strips, metal lath. Owners taking bids due May 9th. Abel Bottoms & Sons Co., 41 South Fifteenth street; Wells Construction Co., Witherspoon Buildings;

Charles McCaul Co., 1713 Sansom street; Berry Goodwin Co., Drexel Building; W. W. Anstine Co., 1214 Filbert street; Fidelity Construction Co., Heed Building; J. G. Doak & Co., Crozer Building; Mitchell Bros., 2125 Race street; Cramp & Co., Denckla Building; Ed. F. Fonder, Land Title Building; J. E. & A. L. Pennock, Land Title Building; P. J. Hurley, 1233 Cherry street; A. Whitehead, Inc., 1624 Latimer street; Ketcham & McQuade, 1029 Brown street, all of Philadelphia, and W. H. Flick, Lancaster, Pa.; F. R. Heavner, Norristown; J. Keenan, Phoenixville, Pa.; W. J. Elliott, Coatesville, Pa.

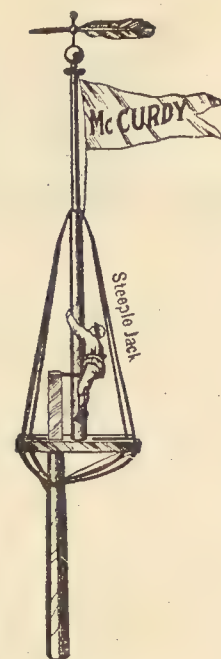
Apartment House (alt.), Lancaster, Pa. \$4,500. Architect, J. B. Harman, Breneman Building, Lancaster, Pa. Owner, Ed. S. Kress, 37 West King street, Lancaster, Pa. Brick, 2 stories, 74x35 feet. Owner wants bids on vacuum cleaning plant, garbage incinerator, dumb-waiters, speaking tubes.

School, Northampton, Pa. Architects, Jacoby & Weishample, Allentown, Pa. Owners, Board of Education, Northampton, Pa. Brick and terra cotta, 2 stories and basement, 66x179 feet, slag roof, composition floors, metal lath (heat and light, reserved). Owners taking bids due May 4th. F. Reo Searing, Perry Building, Philadelphia, is figuring.

Post Office, Huntingdon, Pa. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Washington, D. C. Stone and brick, 2 stories, 65x82 feet, composition roof, steam heating, electric lighting, water proofing, metal lath. Owners taking bids due May 11th. F. Roe Searing, Perry Building Philadelphia; Wells Construction Co., Witherspoon Building, Philadelphia; J. S. Rogers Co., Moorestown, N. J.; J. W. Emery, 1524 Sansom street, Philadelphia; J. E. & A. L. Pennock, Land Title Building, Philadelphia; Charles McCaul Co., 1713 Sansom street, Philadelphia; Pomeroy Construction Co., 1609 Ransstead street, Philadelphia, are figuring.

Residence (alt. and add.), Conshohocken, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Philadelphia. Owner, William S. Perot, Jr., Conshohocken, Pa. Stone, 2½ stories. Plans completed. Architect ready for bids.

Buildings (2), Betzwood, Pa. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owners, Lubin Manufacturing Company, Betzwood, Pa. Plaster, 1 story, 40x60 feet. Architects taking bids, due May 1st. George & Borst, 277 South Eleventh



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street; William R. Dougherty, 1610 Sansom street, and J. W. Emery, 1524 Sansom street, are figuring.

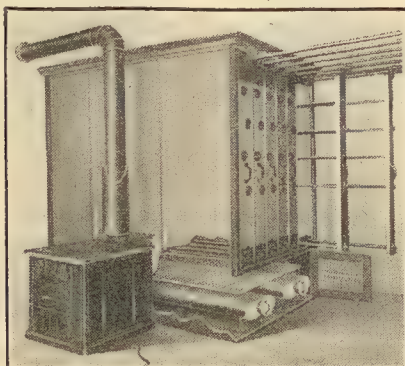
Residence, Flourtown, Pa. Architect, A. B. Lacey, 1012 Walnut street, Philadelphia. Owner, J. E. Thomas, Stenton and Hillcrest avenue, Chestnut Hill, Philadelphia. Stone, 1½ stories, 30x40 feet, slate roof, steam heating, electric lighting. Owner taking bids.

Church, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, St. James' Lutheran Church, Pottstown, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Plans about completed. Architects will take bids in about 10 days.

"Noah filled the ark," says an exchange, "without advertising."

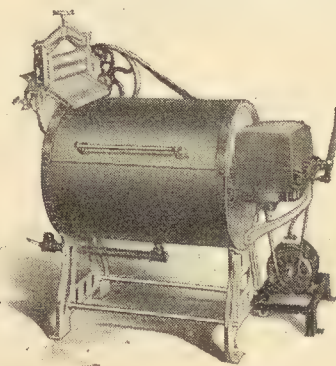
Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us for 40 days and 40 nights.

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PENNSYLVANIA

Contracts Awarded

Stable (alt. and add.), Meadowbrook, Pa. \$4,000. Architects, DeArmont, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, W. E. Weber, 509 South Tenth street, Philadelphia. Stone, 1½ stories, shingle roof, steam heating, electric lighting. Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

Twin Residence, Bala, Pa. Architect, W. C. Prichett, 418 Walnut street, Philadelphia. Owner, Howard L. Neff, 115 Walnut street, Philadelphia. Brick and stucco, 2½ stories, shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Davis Pennock, 901 South Fifty-fourth street, Philadelphia.

Store and Apartment, Shamokin, Pa. \$10,000. Architect, W. H. Lee, Shamokin, Pa. Owner, T. F. Simmonds, Shamokin, Pa. Cement block, 3 stories, 25x70 feet, slag roof, hot water heating, electric lighting. Contract awarded to Reitz Bros., Shamokin, Pa.

School and Hall, Kulpmont, Pa. \$12,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Rt. Rev. J. W. Shanahan, Harrisburg, Pa. Frame, 2 stories, 50x100 feet, slate roof, steam heating, electric lighting, maple floors. Contract awarded to Everett Bros., Kulpmont, Pa. Work will commence April 27th.

Club and Picture Theatre, Mahanoy City, Pa. \$25,000. Architect, E. Z. School, 31 North Sixth street, Reading, Pa. Owner, B. P. O. E., No. 695, Mahanoy City, Pa. Brick and terra cotta, 3 stories, 42x125 feet, slag and tile roof, steam heating, gas and electric light, hardwood and composition floors. Contract awarded to Andrew J. Breslin, Summit Hill, Pa.

Workmens' Houses (12), Reading, Pa. \$3,200 each. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owner, Muhlenberg Estate, Reading, Pa. Brick, 2 stories, slate roofs, hot air heat, gas and electric light. Contract awarded to Charles H. Schlegel, Mt. Penn, Pa.

High School, Lansdale, Pa. \$30,000. Archi-

tect, George E. Savage, Witherspoon Building. Owner, School Board of Lansdale, Pa. Stone, 2 stories, 60x125 feet, slag roof, metal lath, hollow tile and concrete fire proofing, maple floors (heating and electric work, separate contracts). Alexander Chambley, 243 South Tenth street, Philadelphia, submitted the lowest bid and will probably be awarded contract.

Residence, Media, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, Dr. C. F. Janney, Media, Pa. Hollow tile and plaster, 2½ stories, 36x50 feet, slate roof, electric lighting, hot water heating, hardwood floors. Contract awarded to Lindsay & Moorehouse, Media, Pa.

Residence (alt. and add.), Quarryville, Pa. Pa. \$3,500. Architect, J. B. Harman, Brene-man Building, Lancaster, Pa. Owner, Amos Gilbert, Quarryville, Pa. Brick, 2½ stories, 36x34 feet, hot water heating, electric lighting, tile work. Contract awarded to W. D. Herr, Quarryville, Pa.

Rectory, Newtown Square, Pa., \$9,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Father Maguire, Newtown Square, Pa. Stone, 2½ stories, 32x38 feet, slate roof, hot water heating, electric lighting. Contract awarded to J. McKenna & Sons, 1032 Race street, Philadelphia.

Garage, Wyncote, Pa., \$4,000. Architects, Zantzinger, Borie & Medary, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, P. S. Collins, Wyncote, Pa. Stone, 1½ stories, 24x61 feet, shingle roof, hot water heating, electric lighting, gasoline storage system. Contract awarded to H. H. Burrell, 1204 Chancellor street, Philadelphia.

Residence (alt. and add.), Bala, Pa., \$1,200. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, G. Brinton Roberts, Bala, Pa. Consists of bath room, bed rooms and partitions. Contract awarded to J. Sims Wilson, 1125 Brown street, Philadelphia.

Philadelphia; D. E. Boyer Co., 523½ Arch street, Camden, N. J.; W. R. Titus, Paulsboro, N. J., and J. B. Rowen, Morristown, N. J.

Nurses' Home, Atlantic City, N. J. \$20,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Atlantic City Hospital, care of A. M. Heston, 26 South Iowa avenue, Atlantic City, N. J. Brick, stone trimmings, 3 stories, slag roof, steam heating, electric lighting. Owners taking bids due May 7th. The following are figuring: E. E. Smith, 2809 Fairmount avenue; Hampton Bros., 4403 Atlantic avenue; P. G. Hannum, 16 North Georgia avenue; Wilbert Beaumont, 12 South Tennessee avenue; H. G. Scull, Sheen Building; C. D. Thompson, Sheen Building, N. L. Young, all of Atlantic City, N. J., and J. W. Ingersoll, Margate City, N. J.

Bungalow, Seaside Park, N. J. \$1,000. Architect, J. P. Pette, 131 Jackson street,

Trenton, N. J. Owner, Robert M. Earley, 729 Mickle street, Camden, N. J. Shingle, 1½ stories, 24x45 feet, shingle roof, electric light. Plans in progress.

Residences (7), Trenton, N. J. Architect, William B. Thines, 326 West state street, Trenton, N. J. Owner, Isaac Lavine, 105 Union street, Trenton, N. J. Brick, 2 stories, slag roofs, gas lighting. Owner taking sub-bids.

Residence, Flemington, N. J. \$6,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, E. B. Aleen, Flemington, N. J. Hollow tile and stucco, 2 stories, 40x30 feet, shingle roof, gas and electric lighting, hardwood floors. Architects taking bids. The following are figuring: Scott & Day, Burton & Burton, I. Harper Clayton, all of Trenton, N. J.

Bank Building (alt. and add.), Swedesboro, N. J. \$25,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Swedesboro Trust Co., Charles M. Ware, Treasurer, Swedesboro, N. J. Brick, stone and marble, 1 story, 40x43 feet, slag roof, electric lighting, composition floors (heating, vault and bank fixtures, reserved). Architects taking bids due May 4th. The following are figuring: Alexander Chambley, 243 South Tenth street; Monaghan & Losse, 214 South Twelfth street; W. Beaumont, Stephen Girard Building; F. Roe Searing, Perry Building, Philadelphia, Pa.; J. B. Best, Woodbury, N. J.; L. S. Parks, Swedesboro, N. J.; D. E. Boyer Co., 523½ Arch street, Camden, N. J.; Frank Turner, 828 Broadway, Camden, N. J.; William A. Lacy, Richwood, N. J.; H. H. Hankins, Bridgeton, N. J.; John Hunter, Swedesboro, N. J.

Water Works (add.), Moorestown, N. J. Engineer, Alexander Potter, 50 Church street, New York City. Owner, Borough of Moorestown, N. J. Concrete, 1 story. Owners taking bids due April 28th. J. S. Rogers Co., Moorestown, N. J., is figuring.

Residence, Trenton, N. J. \$7,000. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner, Joseph Lavine, Union street, Trenton, N. J. Brick, stone trimmings, 2½ stories, 29x75 feet, slate and tin roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids. Ed. LaRue, William Hicks, Morris Bros., Charles Smith, all of Trenton, N. J., are figuring.

Cottage and Chapel, Clinton, N. J. Architect, George S. Drew, Trenton, N. J. Owner, Department of Correction and Charities, Trenton, N. J. Brick and plaster, 2½ stories, 29x127 feet, slate roof, hot water heating, electric lighting, metal lath. Owners taking bids due May 1st. F. Roe Searing, Perry Building, and James H. Wells, Heed Building, Philadelphia, are figuring.

Residence, Store and Apartment, Woodbury, N. J. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, Harry Polsky, Woodbury, N. J. Brick, 2 stories, 90x66 feet, slag roof, electric lighting (heating, reserved). Architect taking bids due April 30th. The following are figuring: F. Roe Searing, Perry Building, Philadelphia; D. Krug, Pitman, N. J.; Carter Bros., Pitman, N. J.; W. Titus, Clayton, N. J.; S. Levy, 1009 Kaighns avenue, Camden, N. J.; D. E. Boyer Co., 523½ Arch street, Camden, N. J.

Residence, Pennington, N. J. \$3,600. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner, Alexander Scott, Chambers street, Trenton, N. J. Frame, 2½ stories, 24x34 feet, slate roof, vapor heating, electric lighting. Architect taking bids. The following are figuring: William Hicks, Charles Randall, Ed. LaRue, A. W. Chapman, Ed. Sutton, Trenton, N. J., and Vamoy and Skillman, Pennington, N. J.

Residence, Pennington, N. J. \$3,600. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner, Ambrose Allen, 106 Culbertson avenue, Trenton, N. J. Frame, 2½ stories,

NEW JERSEY

Construction News

Cottage and Chapel, Clinton, N. J. Architect, George S. Drew, Trenton, N. J. Owner, Department of Correction and Charities, Trenton, N. J. Brick and plaster, 2½ stories, 29x127 feet, slate roof, hot water heating, electric lighting, metal lath. Owners taking bids due May 1st. F. Roe Searing, Perry Building, and James H. Wells, Heed Building, Philadelphia, are figuring.

Parish House, Woodbury, N. J. Architect, J. Franklin Stuckert, 112 South Forth-third street, Philadelphia. Owner, Christ Church, Woodbury, N. J. Stone and plaster, 2 stories, 45x95 feet, slate roof, steam heating, electric lighting. Plans in progress.

School, Elmer, N. J., \$20,000. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, Board of Education, care of E. Bostwick, Elmer, N. J. Brick, 2 stories, 51x80 feet, slate roof, steam heating, electric lighting, safety treads. Owners taking bids due May 1st. George Hogg, 1634 Sansom street; E. J. Tourison, 1001 Chestnut street,

25x32 feet, slate roof, vapor heating, electric lighting. Architect taking bids. The following are figuring: William Hicks, Charles Randall, Ed. LaRue, Ed. Sutton, A. W. Chapman, Trenton, N. J., and Vamoy and Skillman, Pennington, N. J.

Residence, Ocean City, N. J. Architect, P. J. Klinges, 1012 Walnut street, Philadelphia. Owner, Martin Maloney, Ocean City, N. J. Brick, 2½ stories, 25x32 feet, slate roof; hot water heating, electric lighting, hardwood floors. Architect taking bids, due May 1st. H. E. Baton, Twelfth and Sansom streets, Philadelphia; Allen Scull, J. G. Champion, J. C. Steelman, S. B. Swan, English & Johnson, Scull Brothers, all of Ocean City, N. J., are figuring.

New Jersey

Contracts Awarded

Residence, Moorestown, N. J. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Joseph Roberts, Moorestown, N. J. Hollow tile and plaster, 2½ stories, slate roof, hot air heating, electric lighting, hardwood floors, metal weather strips. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Residence, Moorestown, N. J. Architect, private plans. Owner, W. H. Richie, Moorestown, N. J. Hollow tile and plaster, 2½ stories, 30x50 feet, shingle roof, hot air heating, electric lighting, hardwood floors. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

School (alt. and add.), Maple Shade, N. J. \$4,500. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Chester Township Board of Education. Brick, 2 stories, 49x79 feet, asbestos shingle roof, electric lighting, metal lath, damp proofing (heating, reserved). Contract awarded to George Bachman, 19 North Thirtieth street, Camden, N. J.

Residence, Atlantic City, N. J. \$15,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, J. H. Carstairs, 254 South Third street, Philadelphia. Frame, brick and plaster, 2½ stories, 36x36 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Milton W. Young, Overbrook, Pa.

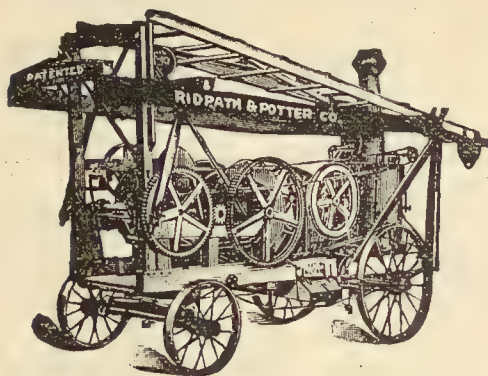
Comfort Station, California avenue, Atlantic City, N. J. Architects, Stout and Reibenack, Bartlett Building, Atlantic City, N. J. Owner, City of Atlantic City. Concrete, 1 story, tile and marble work, electric lighting. W. Beaumont, 12 South Tennessee avenue, Atlantic City, submitted the lowest bid.

School Building, Bargaintown, N. J. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owners, Egg Harbor Township School Board, Egg Harbor, N. J. Brick and limestone, 2 stories, 65x122 feet, slate roof, gas lighting, safety treads, metal lath, metal ceilings, separate bids on heating, hot air gravity system or direct-indirect steam. Contract awarded to Thompson Brothers, 14 South Ohio avenue, Atlantic City, N. J.

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Miscellaneous Construction News

Store and Residence, Wilmington, Del. \$5,200. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Mary G. Eyer, Lincoln avenue and Adams street, Wilmington, Del. Brick, 3 stories, 20x64 feet, tin roof, steam heating, gas and electric lighting. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Saloon and Apartments (alt. and add.), Ninth and duPont streets, Wilmington, Del. \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John Mullarkey, on premises. Brick, 3 stories, 22x80 feet, tin roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to John Shunder, 600 Rodney street, Wilmington, Del.

Club House, Fayette and Howard streets, Baltimore, Md. Architects, Wyatt & Nolt, Keyser Building, Baltimore, Md. Owners, Elks' Club, Baltimore, Md. Brick and stone, 5 stories, 59x155 feet, slag roof, steam heating, electric lighting, metal sash and frames, metal doors and trimmings, enamel brick, metal lath, elevators. Architects taking bids due May 9th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence, Wilmington, Del., \$18,000. Arch-

itect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, William C. Spruance, Jr., 1616 Broome street, Wilmington, Del. Brick, 2½ stories, 28x51 feet; wing, 18x30 feet, slate roof, vapor heating, hardwood floors, electric lighting. Revised plans in progress.

Garage, Wilmington, Del. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, A. M. L. DuPont, Wilmington, Del. Brick and plaster, 1½ stories, 36x37 feet, slate roof, electric lighting. Contract awarded to Elfrehth & Wood, 1708 Sansom street, Philadelphia.

Residence and Garage, Bromwell, W. Va., \$25,000. Architects, De Armond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, Mrs. K. R. Hewitt, Bromwell, W. Va. Stone, 2½ stories, 65x70 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood floors. Architects taking bids, due May 8th. George & Borst, 277 South Eleventh street; F. L. Hoover & Sons, 1023 Cherry street; Henry L. Brown, 1714 Sansom street; William R. Dougherty, 1610 Sansom street; George F. Pawling, Broad and Vine streets; Graham-Campion Company, Heed Building, all of Philadelphia, are figuring.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

J. Marker (O), Stone House Lane. Cost, \$750. Dwelling, frame, 2 stories, 14x40 feet, Fifth and Stamford streets.

Max Supointz (O), 427 Fitzwater street. Louis Cohen (C), 417 Christian street. Cost, \$4,000. Store, brick, 2 stories, 19x30 feet, 427 Fitzwater street.

H. F. Hartung (O), 7405 J street. Cost, \$3,200. Two dwellings, brick, 2 stories, 14x39 feet, K and Cottman streets.

S. S. Fineman (O), 223 South Sixth street. Cost, \$10,000. Theatre, brick, 1 story, 40x108 feet, 937 South street.

S. Royland (O), Fox Chase, Philadelphia.

Joseph Ashby (C), Fox Chase, Philadelphia. Cost, \$3,150. Dwelling, brick, 3 stories, 28x38 feet, Fox Chase, Philadelphia.

H. G. Fetteroff (O), Wayne Junction, Philadelphia. William Steele & Sons (C), 1600 Arch street. Cost, \$10,000. Manufacturing, brick, 1 story, 43x54 feet, Stenton avenue and Loudon street.

H. E. Silk (O), Bailey Building. J. McKenna & Sons (C), 1032 Race street. Cost, \$12,000. Theatre, brick, 1 story, 35x130 feet, 905 South Fifth street.

Standard Refrigerator Company (O), 2543 (Continued on page 278).

Bell Phone, Spruce 6612

Keystone Phone, Race 2799

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PUBLISHED WEEKLY

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Irving Dillon.....Editor

PHILADELPHIA, PA., APRIL 29, 1914.

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Editorial Comment

Certain New York men who figured that an Exhibition of Bad Taste would be in good taste at this particular time are beginning to realize that the taste of the public is a somewhat difficult thing to gauge. Unfortunately for the success of the venture, the men behind it committed the error of overdoing the thing. In other words, they reproduced the garish, tawdry, and hideous decorative ideas of the later Victorian period with such remarkable fidelity as to awaken in most beholders—certainly in most beholders of middle age,—a feeling of easily-understood resentment. To the average man and woman of forty the crudities of taste burlesqued in this exhibition are associated with recollections too sacred to be made the theme for popular mirth. The things which spell taste to the generation of the present era, however admirable in their way, may seem quite as ludicrous to the illuminati of fifty years hence as does the poor finery of forty years back to the cultivated intelligence of to-day. Just how people feel about the attempt of the promoters to hold up to derision and to ridicule the typical home interior of the eighties is reflected in the following editorial from the "Public Ledger," of Philadelphia:

* * *

Under the caption, "Bad Taste and a Boomerang," the "Ledger" remarks:

"A very curious episode happened in New York, where a number of cultivated persons opened an exhibition which was meant to reveal the horrors of the home decorations of our fathers. It was dubbed an exhibition of the 'bad taste' in the later Victorian period, and was nonchalantly described by its organizers as the domestic 'screams of the '80s.'

"For a while it looked very roseate for the superior persons, and thousands came to laugh at the awful ornaments, a Venus de Milo, with a clock in her lap, wax flowers under glass, the improbable furniture, the crayon family portraits, memorials in human hair, the hideous lambrequins, the tufted and colored antimacassars, the plaster groups, and especially the lamps, mats and tidies for arm-chairs and sofas, which were also there in hot plush and cool horsehair, all equally given over to ugliness. But, curiously enough, reaction soon set in and there has been the severest criticism of the promoters of the show for reflecting on the mothers and fathers, to say nothing of the grandmothers and grandfathers, of the present generation.

"This wholly unexpected boomerang came from a quarter least considered by the esthetic specialists, who were concerned in one thing only, a demonstration of the forces out of which developed the good taste in architecture and house decoration that now prevails. The specialists never dreamed that the appeal to the head would not carry conviction unless

the heart was touched also. It is their failure to reach the emotions that has brought about the humorously anomalous situation that the perpetrators of the bad taste show are really viewed in some quarters as almost inhuman monsters who would trample on the most sacred feelings of human beings, joke over family life, make fun of funerals, etc., since they have spared nothing that stood for 'home' in the happy childhood past of the grown-ups of to-day.

* * *

"Whether the emotions are right or wrong, at least they have been stirred up, and some of those whose feelings are outraged at seeing fun poked at zephy mottoes worked in perforated cardboard, displaying the words 'God Bless Our Home' and 'What is Home Without a Mother' have not lacked the literary skill nor the artistic endowments to question the glib canons by which the promoters of the attack on the easy-going ways of the past have decided dogmatically that the domestic life of the '80s should be pilloried to-day. Of course, in the main, most people will agree with the exhibitors, but there may be bad taste in manners as well as in art objects, and it looks very much as though the show in New York had overstepped the line."

* * *

That this view is not peculiar to Philadelphia and to the "Ledger" is attested by a recent editorial utterance relating to the same subject in that aggressively cosmopolitan newspaper, the late Mr. Dana's New York "Sun."

"New York is convulsing itself," comments the "Sun," "over a chamber of horrors of decorative art. It is called an Exhibition of Bad Taste, but the name is better than the inventors of this show intended. It is the show, and not its contents, that is bad taste. The ornaments on grandmother's mantel and the contents of mother's whatnot provoke inextinguishable laughter from persons who will pay any price for any ornament or implement that come from a period of about two generations further back. The trouble with grandmother's and mother's bric-a-brac is that it is not quite old enough to be antique. The sampler of somebody's great-grandmother is easily worth \$25. The embroidered sofa pillow, the painted plush wall banner, now distressing or amusing New York, will be worth that 50 years hence.

* * *

"What's the matter with wax flowers in a glass case that used to stand on grandma's mantel in the best room? If artificial flowers are all right on a headpiece, why not on a mantel-piece? That landscape painted on a cobblestone is excruciatingly funny to the New York taste of 1914, but Paganini made a violin out of a wooden shoe, and New York

collectors would give a king's ransom for it. Why explode with merriment over a marble-topped table? The combination of wood and stone is not more incongruous than the metal ornaments on wood which marked the Empire furniture.

* * *

"Thirty years ago the eminent authorities on household art were insisting on strong, straight legs for furniture, on the ground that the purpose of a leg was to hold up something, and it ought not to look as though it might give way. But the connoisseurs are now giving hundreds of dollars for any knock-kneed furniture of the Chippendale species that they can get hold of. These are mere changes of fashion; they are not evolutions of taste. There is no more good taste in a sheath gown and a split skirt of to-day than in the ample skirts supported by hoops of half a century ago, or the nightdresses worn in the daytime in the Directory period, but there is a great deal more of the fashion of the present day.

* * *

"Thirty or forty years ago the periodicals devoted to the domestic life used to tell how to cut a barrel in two so that with a proper amount of stuffing each half would be an easy chair that one could sit in for ten or fifteen minutes without serious discomfort. But at that time money was not so easy as it is now, and mother didn't have to go to her club, or march in a procession, and sister wasn't dancing the tango most of the time, and brother spent his time at school in learning to read and spell instead of playing with tools in a manual training school. There was time to make things for home use. The ornaments of the house did not come from the pocket of pa, but from the hands of mother and the girls and the boys.

"There's a great craze now for handwork in distinction from machine-made ornament, but it's got to be far enough back to rank as antique. As Gilbert sang in one of his delightful operas:

" 'Art stopped short
At the cultivated court
Of the Empress Josephine.' "

* * *

The Exhibition of Bad Taste is not, it would seem, the complete success its promoters anticipated. After all, taste is largely a matter of climate, environment, cultivation and the mode of the moment. We may concede the essential crudity of the decorative ideas of the '80s because they are not now in touch with accepted ideas of "good form." We may condemn as downright ugly much that seemed good enough to us in earlier days because we have progressed in the intervening years to a something vastly different if not appreciably better. At the same time we cannot be quite candid with ourselves and fail to recognize the fact that much that we regard as proper and modish in the decorative art of to-day is of the same deadly order of banality. So long as we continue to use architectural terra cotta for stone, columns

where there is nothing to support, timbered work that is mere surface effect and interior marble and ornamentation that is composition and artificial, so long shall we be in some measure debarred from holding up to laughter the taste, or lack of it, observable in our parents and grandparents.

* * *

Anything more hideous than some of the geometrical Grand Rapids "Mission" furnishings, the all-gilt parlor chairs and settees, —still to be found in houses whose owners harbor pretensions to taste,—the imitation antiques of jarring periods, the china and crystal cabinets,—prim and decorous as show windows,—and the bric-a-brac assemblages of the average household with their mixture of the good and bad, the expensive and the shoddy, the modish and the curious—anything more execrable to the finer ideals of taste than these it would be difficult to dig up out of the whole Victorian era. Take the game panels in the average dining room as a direct case in point. Originally birds, hares and fish stuffed and mounted, they have gradually evolved into chromotype reproductions.

* * *

The silver in the homes of many of the young people who laughed most boisterously at the New York exhibit is plated ware—as shoddy as the veneer and glue in their house-fittings.

* * *

Taste, it may be well to remember, is relative—it is swayed by prevailing modes. It is governed largely by the whims of the "smart" social element. We shouldn't care to attempt to defend as good all of the hideous incongruities of the household art of the early '80s. It might be prudent, however, to keep in view, in any extended consideration of the general subject of taste, the painfully obvious shortcomings of the household art of 1914. A fairly respectable exhibition of bad taste, we fancy, could be assembled out of the artistic or inartistic aberrations of the present day idiosyncrasies of dress included.

RECENT TRADE LITERATURE.

The Philip Carey Company, Lockland, Cincinnati, Ohio, is sending out to retail dealers an illustrated circular announcement of its new selling plan for the pushing of Carey Ceil Board claimed to be one of the best of the many wall boards now on the market. A feature of the Carey Company's proposition is an offer to spend 15 per cent. of the amount placed with them on any order of Ceil Board in advertising in any local paper selected by the dealer, and to provide the dealer with electros to make such advertising attractive. The illustrated circular referred to—a handsome four-page affair,—shows cuts in colors of the board in its various wood finishes, cuts of interiors showing how it is applied and sample electros of the advertising placed at the command of the local dealer.

"Marble Mosaic Floor Tile" is the title of an elaborate catalogue issued by the Frank A. Seifert Plastic Relief Company, 2627-2631 Dayton street, St. Louis, Mo. The catalogue is illustrated in the natural colors of marble and granite mosaic tile, which are manufactured from Portland cement and marble and granite chips pressed into different shapes by hydraulic pressure, then steam cured and further water cured for such a time until the maximum strength of the cement is obtained. Many smaller illustrations are contained showing the various effects which may be secured. This catalogue will prove both interesting and valuable to any one interested in ornamental floor tile.

* * *

"Ajax—A New Troy" is the title of a pamphlet just issued by the Troy Wagon Works Company, Troy, Ohio, descriptive of the new dump wagon which the Troy Company is now manufacturing.

* * *

From the American Steel and Wire Company comes a handsome book entitled "Reinforced Concrete Pavements and Roadways," wherein the story of the Triangle Mesh Wire reinforced type is fully set forth in most informative fashion. As the engineers of this concern are responsible in large measure for the successful examples of the best type of concrete roads and pavements, the story of their work is of marked value. In all the recent literature of the permanent pavement there is no more interesting compilation of experience and practice than this book, and every engineer and contractor should possess himself of a copy at once.

LAMPS AND CHANDELIERS.

The last half of the eighteenth century marked the adoption of magnificent chandeliers, many of which are still preserved. One such is found in the Warner house at Portsmouth, in the parlor at the right of the wide old hall, a room wherein have assembled many notable gatherings, for the Honorable Jonathan Warner was a generous host. This specimen is among the finest in the country, and is in keeping with the other fine old-time fittings, says Mary H. Northend.

About the beginning of the nineteenth century, candelabra and lamps with glass prisms were much used, some of them very simple in design, being little more than a plain stick with a few prisms attached, while others were very elaborate. Many of these candlesticks and candelabra are still preserved, together with the other old-time lights. In a Jamaica Plain home are some very valuable specimens of lighting fixtures that once stood on the mantel in the Sprague House, on Essex street, Salem, having been brought to this country by the first owner at the time the dwelling was being furnished for his bride.

With Fashion's decree that lamps and candelabra should be hung with cut-glass prisms, they attained great popularity, and sets of three came to be regular ornaments of the carved mantelpieces.

Make Your Home Attractive

You want to have your home bright and cheery and comfortable, don't you? Nothing will add more to its appearance and to your comfort than Electric Light. Your house can be wired for Electricity without dirt or noise and without injury to walls or ceilings, and you may take advantage of our deferred payment plan. For details consult



PERMITS FOR NEW BUILDINGS.

(Continued from page 275).

Germantown avenue. H. Gill, Jr., 2515 Germantown avenue. Cost, \$14,000. Manufacturing building, brick, 2 stories, 55x48 feet, 2543 Germantown avenue.

Joseph Nuss (O), Richmond and Pratt streets. E. T. Bender (C), 6014 Torresdale avenue. Cost, \$4,000. One dwelling, brick, 3 stories, 17x33 feet, Prate and salmon streets. Cost, \$1,000. Store and dwelling, 4626 Frankford avenue.

C. Coale (O), 1103 Fillmore street. J. Gotheringham (C), 3367 Frankford avenue. Cost, \$3,100. Dwelling, brick, 2 stories, 16x38 feet, 1111 Foulkford street.

Samuel Sholad (O), Eightieth and Graver's avenue. C. S. Kates (C), Seventy-ninth and Brewster avenue. Cost, \$1,800. Dwelling, brick, 2 stories, 16x36 feet, Eightieth and Graver's lane.

S. H. Marvel (O), 1607 Hunting Park avenue. R. M. Black (C), 1320 Bristol street. Cost, \$4,800. Garage, brick, 1 story, 18x70 feet, 1607 Hunting Park avenue.

Harry Schmidt (O), 2603 Howarth street. Cost, \$1,500. One Dwelling, brick, 2 stories, 14x24 feet, 2603 Howarth street.

Walter Smith (O), 5263 Ridge avenue. Cost, \$3,600. Two dwellings, brick, 2 stories, 16x44 feet, Dawson and Righter streets.

Fred Genim (O), 3916 Pulaski avenue. J. Krebs (C), 2853 Germantown avenue. Cost, \$2,500. Stone, 3 stories, brick, 13x46 feet, 2020 Hunting Park avenue.

F. Yoskin (O), Eightieth and Harley avenue. Cost, \$9,200. Four dwellings, brick, 2 stories, 14x40 feet, Eighty-fourth and East-wick avenue.

A. Pessoldno (O), 524 Christian street. F. R. Bilotta (C), Seventh and Christian streets. Cost, \$6,784. Two dwellings, brick, 3 stories, 14x27 feet, 524 Christian street.

J. W. Grill (O), 410 East Allegheny avenue. Cost, \$1,600. Two dwellings, brick, 2 stories, 16x42 feet, Devereaux and J streets.

Yoskin & Shefkin (O), 7707 Brewster avenue. Cost, \$2,500. Store and dwelling, brick, 2 stories, 16x44 feet. Seventy-eighth and Brewster avenue. Cost, \$4,000. Two dwellings.

W. Bechmann (O), 5309 Master street. Cost, \$2,000. Garage, 5309 Master street.

Weightman Estate (O), 1937 Market street. Cost, \$1,200. Apartment, 3612 Chestnut street.

J. Bermans (O), Sixty-first and Vine streets. Cost, \$3,000. Store and dwelling, Sixty-first and Vine streets.

Mrs. C. Webber (O), 3600 Germantown avenue. H. E. Sweger (C), 4435 North Uber street. Cost, \$2,000. Store and dwelling, Thirteenth and Germantown avenue. Cost, \$3,850. Dwelling.

J. & A. E. Paul (O), Mt. Airy, Pa. E. Tourison (C), 100' Chestnut street. Cost, \$700. Garage, Mt. Airy, Pa.

M. Cylinder (O), 521 Mifflin street. Cost, \$3,600. Dwelling, 1730 S. Seventh street.

F. Ambrosia (O), 219 North Twelfth street. H. C. Dahl (C), 231 South Eighth street. Cost, \$2,700. Dwelling and store, 216 North Twelfth street.

Eymon & Evans Company (O), Fifteenth and Clearfield streets. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$4,000. Foundry, Fifteenth and Clearfield streets.

Estate of J. Pippitt (O), 1825 Diamond

street. J. F. Grant (C), 1625 North Thirteenth street. Cost, \$4,000. Dwelling, 1825 Diamond street. Cost, \$4,500. Dwelling, 2011 North Broad street.

Horn & Hardart (O), 210 South Tenth street. Harry R. Rust (C), 724 Ludlow street. Cost, \$1,000. Building, 9 North Fourth street.

Philadelphia Paper Manufacturing Company (O), 7238 Germantown avenue. F. Elvidge & Sons (C), 5322 Germantown avenue. Cost, \$1,400. Stable, 7238 Germantown avenue.

William Caldwell (O), 3128 North Ninth street. Cost, \$1,000. Factory, Susquehanna and Trenton avenue.

W. G. Warden (O), Witherspoon Building. School Lane Land Company (C), Germantown. Cost, \$15,000. Residence, School lane and Wissahickon avenue.

J. Block Brothers (O), Wittie and Allegheny avenue. Thomas C. Trafford (C), 1613 Sansom street. Cost, \$7,200. Manufacturing brick, 1 story, 47x72 feet, Wittie and Allegheny avenue.

J. Wolf (O), 4110 Terrace street. Cost, \$5,000. Two dwellings, brick, 3 stories, 16x33 feet, Manayunk and Dupont streets.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The Van Kannel Revolving Dood Co. will move their offices from the Fuller Building to 250 West Fifty-fourth street, New York City.

**Mack & Mack, contracting electrical and illuminating engineers, 18 Beaufort street, Jamaica, L. I., desire catalogues and samples an electrical materials and fixtures.

**Herman N. Lubet, architect and engineer, has opened offices for the practice of his profession at 101 West Forty-second street, New York City, and desires catalogues and samples from manuwaeturers interested in the building trade.

**The sixth annual City Planning Conference will be held at Toronto May 25-27, with headquarters at the Hotel King Edward. The program will include the following papers: "Rapid Transit and the Auto Bus," John A. McCullom; "Protecting Residential Districts," Lawrence Vieller; and "Toronto's Waterfront Development," R. S. Gourlay. Frederick L. Olmstead, Andrew Wright Crawford, J. V. Davies and Henry V. Hubbard will also read papers.

**Cyril Bennett, architect, has opened offices for the practice of his profession at 234 Boston Building, Pasadena, Cal., and desires satalogues and samples from manufacturers of building materials and devices.

**George Sykes (Inc.), 314 East Thirty-fourth street, New York City, is in the market for building materials in connection with

the construction of a three-story reinforced concrete residence, 140x160 feet, for which plans were prepared by F. Burrall Hoffman, Jr., 15 East Fortieth street.

**The Asbestos Protected Metal Company, of Beaver Falls, Pa., announces the removal of its Pittsburgh office to 1611 Bannedum-Trees Building, with H. E. Marks continuing as District Manager. Besides its well-known asbestos protected metal for roofing and siding, this company now manufactures a complete line of prepared roofing and shingles to meet the requirements of all kinds of buildings.

**The San Francisco Architectural Club has completed arrangements for the National Architectural Exhibition, to be held in San Francisco, in connection with the Panama-Pacific International Exhibition in 1915.

**American Society of Engineering Contractors will hold its midsummer convention July 3 and July 4, at Brighton Beach, Brooklyn. July 3 will be devoted to papers and discussions of general engineering construction, and Saturday, July 4, will be devoted to papers and discussions on "Best Roads."

**Sub-contracts in the sheet metal line in Milwaukee will be a thing of the past after May 1 if the action taken at a recent meeting of the Milwaukee local is respected by all contractors of that city. It was decided after careful deliberation that no estimates will be given to others than to owners and

architects. This, of course, cuts out the general contractors. A notice, signed by all members of the local, was sent to the building trade and to all other parties interested.

**The Master Plumbers' Association of Philadelphia is sending out a card endorsing the resolution adopted by the American Institute of Architects, at its recent convention, favoring separating letting of plumbing, heating and electrical contracts. The resolution is as follows: "Resolved, That the American Institute of Architects in convention assembled recommended to the members of our profession the adoption of the practice of direct letting of contracts for mechanical equipment, such as heating apparatus, plumbing and electrical equipment. This recommendation is based on the conviction that direct letting of contracts as compared with sub-letting through general contractors affords the architect more certain selection of competent contractors and more efficient control of execution of work and thereby insures a higher standard of work, and, at the same time, serves more equitably the financial interests of both owner and contractor."

A CORRECTION.

In "The Guide" of April 15th, under the heading of Recent Trade Literature, appeared a reference to the cold storage doors manufactured by the United Refrigerator & Ice Machine Company, of Kenosha, Wisconsin. An error of the types made us say that "solid fourteen-inch thick insulation" was one of the advantages of this door. We wrote it "four-inch thick." Of course hence this correction. This door, by the way, is eminently worthy of the attention of builders interested in refrigeration. It is everything that the manufacturers claim for it.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

Are you a regular subscriber to "The Guide"?

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertiser!

INTERIOR DECORATION AND THE MODERN VIEWPOINT

A few times in history men have changed their viewpoints with astonishing rapidity, because conditions forced it. At no time, however, have they done so without a struggle. Men, as a rule, hate innovations, and traditions are sacred. Sentimentality and mental sluggishness, sentiment and "Gospel truth."

For over a century the humanists of Italy waged war on the ascetic mysticism of the Middle Ages, and the result was a national state of mind called "The New Learning," or the Italian Renaissance. This same renaissance was destined to be the most unusual and potent influence that stirred Europe for three centuries, and out of it grew the so-called "periods" to which we, in this land, have been enslaved since disqualification of the "Black-Walnut-Marble-Top-Center Table."

The forces that formed the periods were mighty; they were general and they were also naturally individual. Yes, and they were more than that. They were personal. While the early French periods are known somewhat as a national interpretation of the Italian Renaissance, later French styles are the crystalized mental states of the Louis' and the men and women who composed the various courts of their times and "interior decoration" is the term which, in this country, has meant, to the most enlightened, the collecting of fine specimens from those various periods, and housing them in some building, without the slightest knowledge of who was to occupy it.

To the less cultured and less fortunate, though much larger class, the term has meant hanging new wall paper, painting the trim, frescoing the ceiling, or hanging picture masterpieces or college pennants upon the helpless walls of all rooms alike.

The interior decorator has been anybody who could do any of these things, or all of them, if the locality demanded it. When the public awoke to the possibilities of interior decoration it betook itself to Europe, to the public libraries, to the museums and to other sources for knowledge of what interior decoration meant, what part art or esthetics played in life, what the function of a home was and what were the criteria of selection and arrangement.

The result was an awakened intelligence, a new learning, a renaissance of thought and action, an appreciation of proportions and a realization of the absurdity of applying Old World castle styles to modern cottages.

The call was heard by thousands. The individuality idea became popular with many because ignorant of the periods, unable to interpret them and naturally quick to grasp at any excuse to get away from them; and we have suffered now for years a veritable pest of untrained decorators damning the subject, the product and the business itself.

The older and more conservative men still held a conservative clientele, although many of them saw this yearly growing smaller. A few bright stars shone out in "real original schemes," but for the most part, the field was held for a time by the bigoted, slavish copyist of period expression, to be used anywhere, anyhow, by anybody who could pay for it; or by the newly-fledged freak who offered an entirely new thing in "Original Styles."

All at once, almost in a day, in our great cities, every department store was found "doing interior decorating." But still worse, hosts, swarms of unlikely persons, of some taste, a little money and a few influential society friends, advertised to "do the homes of these friends," their friends, and incidentally, any other persons caught by the transitory idea of being "properly done." Interior decorations sank to the ebb tide of insignificance in the minds of cultured, educated, intelligent people, and promised well to be lost sight of as an individual profession.

And now again the scene has moved. In two or three years a marvelous change has come over the situation; but it is the public, with its new demand, that has wrought this miracle.

The architect, the contractor, the wholesaler, the client himself, each is beginning to see the relation of the house to the man; the relation of the outside to the inside and the relation of the furnishings and fittings to the inside of the house and to each other. The interior decorator must be trained. His is a profession now, he must know as the architect must know; then he may feel, and with knowing, feeling and experience he is qualified to begin the struggle in one of the most promising and modern of professions. The decorator may not occupy and apply the period styles arbitrarily but he must at least know them as the engineer knows his mathematics. It is an American obsession to crave to do the "real practical thing" before one has any knowledge of the thing he is to do—its meaning, its function, or any technique in its doing. Time to them is wasted if they are not receiving a pay envelope every week. The knowledge necessary to increase the contents of this envelope means nothing unless it is gotten in active service, either hunting samples, or tormenting possible clients.

Persons studying law, medicine, or architecture do not insist on beginning their novitiate by trying a murder case, taking off a limb, or submitting plans for a national museum. Each is willing, yes, anxious to qualify in the essential knowledge before attempting the process. So long as the present practice holds interior decoration will call to its ranks, as it does now, unsuccessful dress-makers, academic college women, ambitious high school youths, society's by-products,

women who "must help themselves in the world," and men who think they were born with the "Divine right of taste." Generally no one of these has even a glimpse of the meaning or scope of the subject, nor have they even the desire to learn it. They are content to open a "real studio" and canvass the earth for somebody who will buy through them a yard and a half of cotton damask, a few rolls of wall paper, or let them advise in securing "the very newest thing in chintz."

The remedy for this oversupply of a bad product lies both in the direction in which the public moves and in the immediate attitude of the interior decorator himself. The first condition is already being rapidly met. The public schools, the institutions of higher learning, and the women's clubs of the country are emphasizing more each day the importance of a thorough knowledge of history, that we may see periods as a result; not as a cause. When this is comprehended we shall study and know periods, not copy and misuse them. Education is demanding, also, that the home environment shall express the truth in color, form, line and ornament, and that individual expression shall be the result of knowing what one wants, why he wants it, and how to get it. This condition will soon, very soon, create a public demand for expert advice and fine technical skill on the part of the decorator himself. The days of helpless guess work are gone. Intelligent specialization is the watchword in every field of life.

For the decorator himself there is but one course open—this he must take or become extinct. Traditions must be sacrificed; change opens the way to progress. Periods must be known as inexhaustible sources, from which to create the adequate expression of new ideals, new activities, new conditions. Each period has evolved masterpieces never since equalled, but their functions and combinations in rooms must be modified by modern conditions. Each of these periods has able elements to the full expression of good taste, but each in its entity calls for conditions that we shall never probably see again.

The evolution of this profession calls for scientific knowledge of color, form and pattern, that enables one to see the natural relations between forms and materials, and between materials themselves. This esthetic training is a positive essential to the decorator of these days, as essential as training in mathematics is to the expert accountant.

But of greater importance than either of these is the necessity of an appreciative knowledge of architecture both landscape and building. Surely there is a relation between the house and its grounds, between the parts of the grounds and the parts of the house. There must also be similar relations between the furnishings and the house and between the decorations with each other and the ensemble.

Great indeed is the future of Interior Decoration, if those persons engaged in it will but see its scope, its possibilities, its functions and its force as an economic factor

in the development of our national relationships, as we are evolving, probably, the most general civilization that has ever been.—F. A. Parsons in "Digit and Painters' Review."

A PUNGENT QUESTION OF INTEREST TO LIME MANUFACTURERS.

The general impression now prevails that the Eastern railroads seeking the acknowledged necessary five per cent. increase of revenue will make a decided effort to put the burden of this increase on manufacturers who have private sidings, thereby giving the railroads at least part of the relief they asked for, and at the same time not antagonizing the general mass of people. This plan, it is claimed, will yield a revenue of \$40,000,000 per annum. The general freight increase asked for by the railroads would mean an increase of about \$70,000,000 per annum.

The manifest unfairness and injustice of this proposition of charging for shifting or spotting cars is evident on the face of it, because it means discrimination against low-priced heavy commodities, and those high-priced compact commodities which, in many cases, are more or less luxuries, would not bear any fair relative charge. For instance, a carload of wine that, in monetary value would be worth, say, the value of 100 carloads of lime, would bear only a \$2.00 spot-tage or shifting charge, whereas the same value of lime would sum up \$200 spottage or shifting charges. It also means that lime manufacturers are being penalized for being a carload shipper.

President William E. Carson, of the National Lime Manufacturers' Association, Riverton, Va., is urging members of that organization to communicate with him with a view to presenting a brief before the Interstate Commerce Commission and protest against the proposition. Members are asked to answer and forward immediately to Mr. Carson the following questions:

- 1st. Have you a private siding?
- 2nd. How many cars do you handle per year, in and out?
- 3rd. Do you now actually enjoy ferry or trap car service?
- 4th. Your reasons for objecting.

By ferry or trap car service is meant the opportunity sometimes afforded shippers situated on spur tracks to load their less-than-carload shipments at their own factory or warehouse, the car then being switched to the freight house or transfer station of the railroad for reloading to destination or similar service on inbound less-than-carload freight. It is necessary that the Interstate Commerce Commission should feel the weight of the disapproval of the lime manufacturers, personally, and as an association.

Your salesman would consider himself fortunate to get ONE TEN-MINUTE INTERVIEW with a busy architect IN THREE MONTHS. We REACH and TALK DIRECT to men of this calibre FIFTY-TWO WEEKS IN THE YEAR!

SOMETHING ABOUT ADVERTISING.

The failure of a trial advertisement has set more business men against advertising than any other factor in publicity. This is a pity when the indefiniteness of a trial advertisement is considered. A trial advertisement represents low-water mark—absolute bottom. It is not decisive. It has no more value as evidence than a first meeting with an individual who afterwards becomes your friend. Of all the advertisements in a long campaign, the first ad is the worst, though it is written by an adept. If it is written by a novice in advertising, that novice will never write a weaker one. It is like the first discord struck out of the piano by a beginner. If a student becomes disgusted with such an initial effort he will never get farther, and if a merchant abandons his advertising intentions because the first advertisement was unremunerative, he will never get farther. The first attempt at anything is valuable only as an educator. Advertising is like seed sown, it's got to have time to grow before you can reap the harvest.

If a paper, after careful examination, impresses you at all favorably, it's worth giving a fair trial. In no case should a trial ad be inserted for less than six months. If the paper is going to be a paying investment for you, it will begin to show results by that time.

There is a big difference between feeding a cow just enough to keep her alive, and feeding her enough to create a profit.

The same is true about advertising. Nine times out of ten a small advertisement inserted one or two times, is simply a waste of money, while the same advertisement inserted for six or more months would have become a paying investment.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

COLOR AT SAN FRANCISCO.

Jules Guerin, director of color for the Panama-Pacific International Exposition, holds an unique position, controlling the color scheme for the entire exposition. He has laid out the exposition as a great canvas, and spread his colors, says "Construction Details." He has first taken into account the natural setting of the exposition, the atmospheric colors, the mountains, the bay; second, the buildings shall not seem new and crude, they are to take the colors of a mellow age. A program of eight colors has been worked out, each of which is in key with the atmospheric tones of the environment and of the city. M. Guerin has secured a staff of the leading artists of the world.

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Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

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Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
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Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

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American Clothes Dryer Co.,
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Richards-Wilcox Mfg. Co.,
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Philadelphia Electric Co.,
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Keystone Blue Paper Co.,
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Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Flag Poles (wood and steel).

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J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hardware and Tools.

Sees & Faber Co., 2008 N. Front st., Phila.

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Heaton & Wood, 1802 Chestnut st., Phila.
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Franklin Fixture Company,
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Staman & Dickey Co., 30 S. 16th st., Phila.

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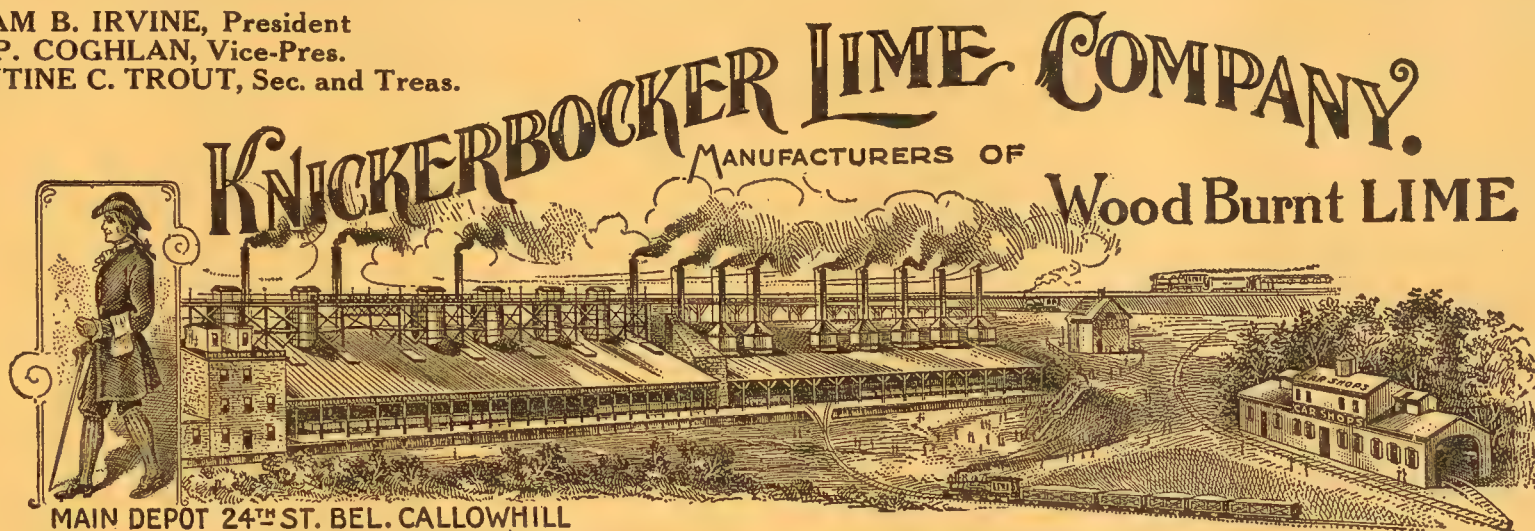
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Vol. XXIX., No. 18.

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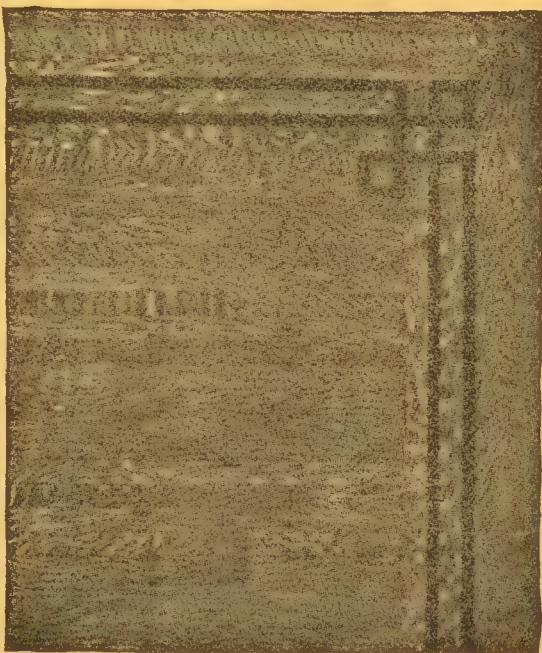
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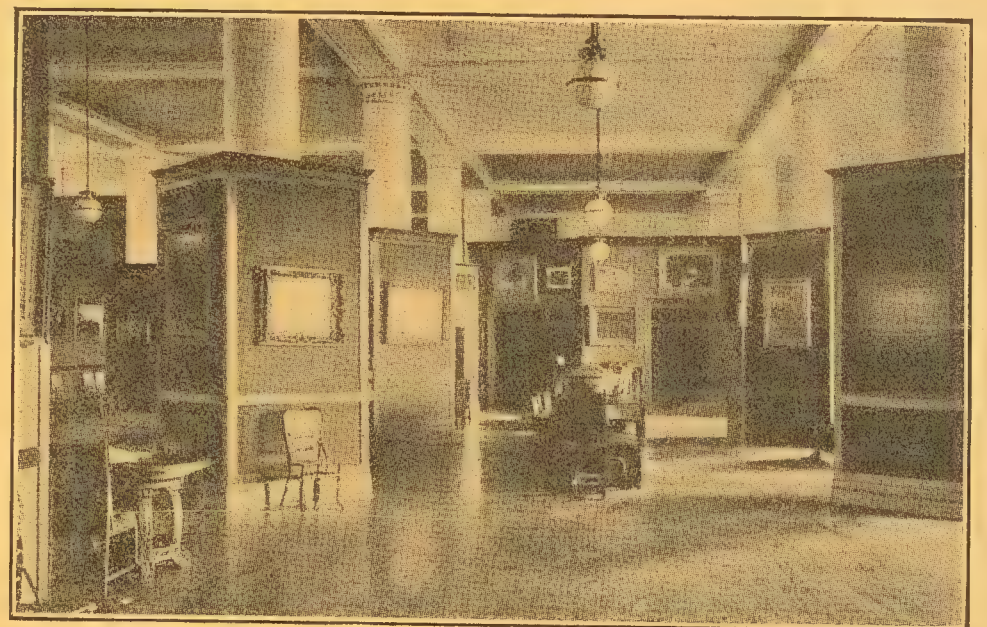
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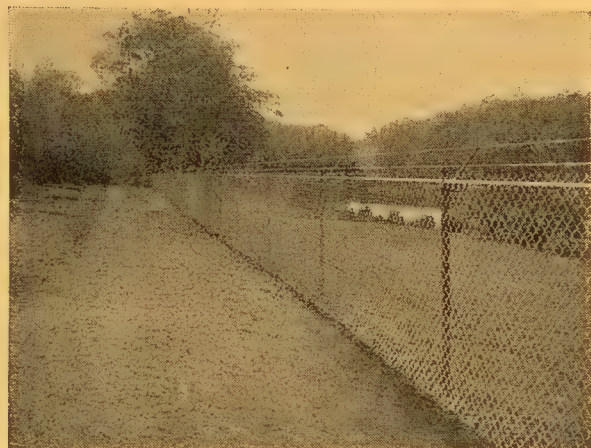
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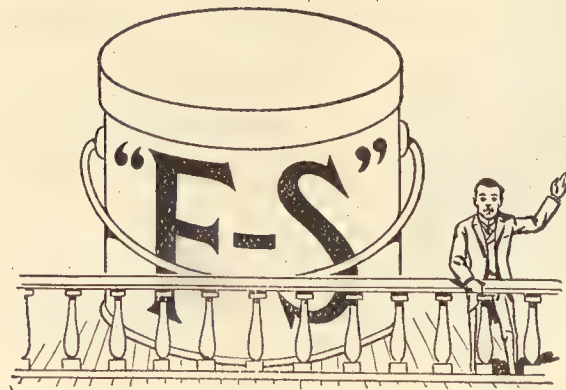
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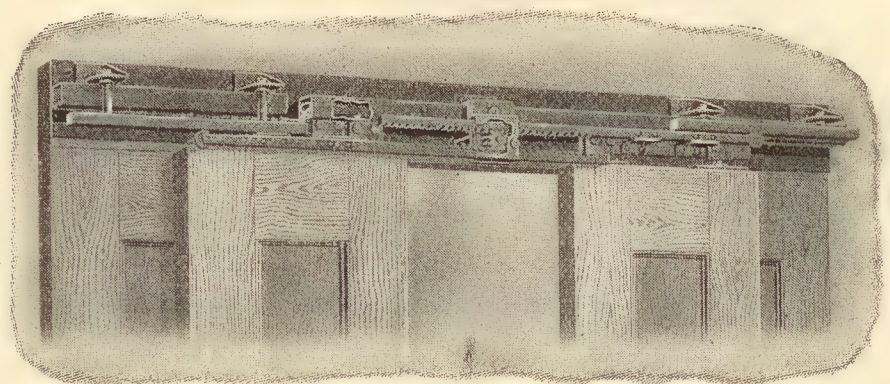
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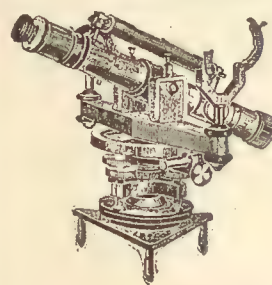
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Vol. XXIX., No. 18

PHILADELPHIA, WEDNESDAY, MAY 6, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Automobile Show Rooms and Garage, N. W. corner Twenty-third and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, Kahn & Greenburg, Morris Building. Brick and concrete, terra cotta, 4 stories, 100x240 feet, slag roof, steam heating, electric lighting, waterproofing, damp-proofing, enamel brick, metal frame and sash, metal lath, elevators. Owners taking sub-bids.

Paper Mill (alt. and add.), Manayunk, Philadelphia. Architects, E. F. Durang & Song, Twelfth and Chestnut streets. Owners, Martin & William H. Nixon Paper Co., Nixon and Umbria streets, Manayunk, Philadelphia. Brick and reinforced concrete, 1 story, 100x125 feet, slag roof, metal frames and sash (heating and electric work reserved). Architects taking bids due May 8th. The following are figuring: James G. Doak & Co., Crozer Building; William R. Dougherty, 1610 Sansom street; I. T. Shoemaker, 6910 Mower street; H. E. Baton, Twelfth and Sansom streets; Barclay White Co., Perry Building; Jacob Myers & Sons, Witherspoon Building; J. McShain, 631 North Seventeenth street; Cramp & Co., Denckla Building; Turner Concrete Steel Co., 1713 Sansom street; Brown Construction Co., 4600 Main street, Manayunk; Monaghan & Losse, 214 South Twelfth street.

Post Office, Seventy-third and Woodland avenue. \$10,000. Architect, H. M. Pedrick, Darby, Pa. Owner, T. F. Dempsey, 7223 Woodland avenue. Brick and stone, 2 stories, 41x102 feet, slag roof, hot-water heating, electric lighting, oak floors. Architects taking bids due May 6th. The following are figuring: Henry L. Brown, 1714 Sansom street; William R. Dougherty, 1610 Sansom street; Thomas C. Trafford, 1613 Sansom street; M. L. Conneen & Co., 2015 Cuthbert street; G. F. Roe, Fifty-ninth and Paschall avenue; E. E. Hollenback, Fifteenth and Race streets; J. B. Flounders, 1329 Arch street; F. Hall, Seventy-first and Greenway avenue; C. E. Fletcher, 2144 South Simpson street; M. Carrey, 741 Shirley street; W. Denny, Seventy-fifth and Buist

avenue; W. J. Irvin, 5927 Kingsessing avenue; W. Beaumont, Stephen Girard Building.

Church (remodelling), Lehigh avenue and B street. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Visitation R. C. Church, on premises. Stone, 1 story, consists of new front. Architects taking sub-bids on all lines.

Residence (alt. and add.), Sixth and Pine streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Dr. N. Y. Belber, on premises. Brick and plaster, 3 stories, 20x27 feet, tile and slag roof, electric lighting (elect light, res.), hardwood floors. Plans in progress.

Residence, Washington Lane and Sullivan street. Architects, Duhring, Okie & Zeigler, Baily Building. Owner, Mrs. J. C. Smith, 3114 Midvale avenue. Stone, 2½ stories, 35x57 feet, shingle roof, hot-water heating, electric lighting, oak floors. Architect taking bids due May 11th. F. B. Davis, 35 South Seventeenth street; R. C. Ballinger Co., 218 North Thirteenth street; I. A. Dunkelberger, 71 East Herman street; A. L. Fretz & Sons, 1222 Chancellor street; W. J. Gruhler Co., 219 High street; W. J. Stevens, Inc., Wyncote, Pa., are figuring.

Store and Apartments, Sixteenth and Brandywine streets. Architect, C. S. Parker, 1227 West Hilton street. Owner, Carl Seigert, on premises. Brick, 3 stories, 16x82 feet, slag roof, hot-water heating, electric lighting, metal lath. Owner has received bids.

Church (add.), Frankford avenue and Lettlerly street, Frankford. Architects, Stearns & Castor, St. Girard Building. Owner, Frankford Avenue Methodist Church C. P. Biggins, 1829 Harland street. Brick and stone, 2 stories and basement, 38x65 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Owners received bids May 5th.

Dairy Building, Sixteenth and Courtland streets. Architects, Oliver R. Parry, 1727 Chestnut street. Owners, Stenton Park

Dairies, on premises. Brick, 2 stories, 34x25 feet, slag roof, steam heating, electric lighting, metal lath. Architect taking bids due May 8th. The following are figuring: Jos. Lavine, 1530 South Sixth street; J. Y. Loud, 1121 Rising Sun Lane; P. W. Huster, Germantown avenue and Hunting Park avenue; Henry P. Schneider, York Road and Erie avenue; John George & Sons, 4329 North Fifteenth street; Nathan Bean, 4411 Germantown avenue; G. J. Reich, 1112 Loudon street; Harvey Yerger, 4430 North Nineteenth street; G. L. Sipps, 912 Locust street; A. Whitehead, Inc., 1624 Latimer street; D. H. Sharp, Heed Building.

Picture Theatre, Thirty-first and Wilt streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Montgomery Amusement Company, care architect. Brick and terra cotta, 1 story, 55x130 feet, slag roof, steam heating, electric lighting. Plans in progress.

Gymnasium, Cheltenham avenue and Chew street. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Church of the Immaculate Conception, on premises. Brick, 1 story, 60x110 feet, slate roof, steam heating, electric lighting, swimming pool. Plans in progress.

Engine Room, Trenton and Allegheny avenues. Architect, C. W. Denny, Hale Building. Owners, Brehm & Stehle, on premises. Brick, 2 stories, 26x42 feet, slag roof. Architect taking sub-bids.

Bank (alt. and add.), Twenty-first and Bainbridge streets. Architect, W. D. Had-dock, care of John Wanamaker. Owner, First Penny Saving Bank, on premises. Brick, 3 stories, 32x83 feet, slag roof (heating and lighting reserved), metal ceilings. Architect has received bids.

Home (add.), Lawndale, Philadelphia. Architects, Koelle, Speth Co., Twenty-sixth and Oxford streets. Owner, German Protestant Home for Aged, Lawndale, Pa. Brick and concrete, 3½ stories, 34x104 feet, slate roof, electric lighting. Architect taking bids due May 11th. George Kessler Construction Co., Drexel Building; Stewart

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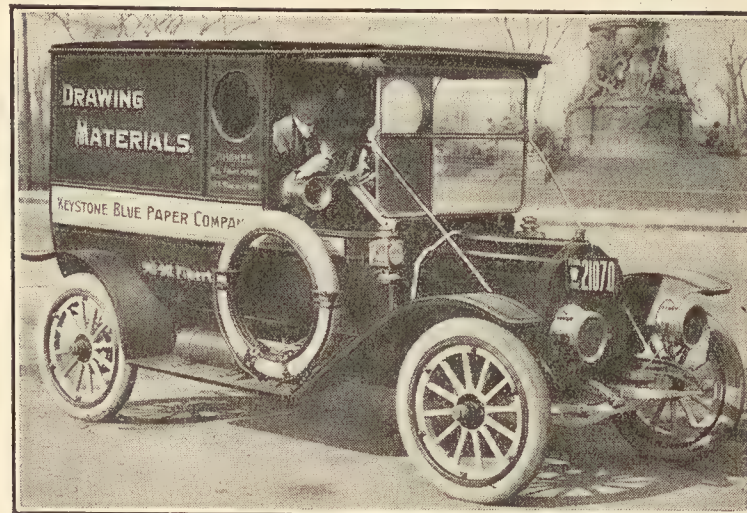
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Bros., 2526 North Orkney street; William
Steele & Sons, 1600 Arch street; Burd P.
Evans Co., Thirteenth and Wallace streets,
are figuring.Residence, Oak Lane, Philadelphia. Arch-
itect, Valentine B. Lee, 1003 Spruce street.
Owner, John A. Kilpatrick, Bourse Build-
ing. Stone, 2½ stories, 34x45 feet, slateroof, hot-water heating, electric lighting,
metal lath. Architect has received bids.Laundry Building, Watts and Fitzwater
streets. Architects, Ballinger & Perrot, 1211
Arch street. Owners, Woman's Homeo-
pathic Hospital, on premises. Brick and terra
cotta, 2 stories, 30x40 feet, slag roof (heat-
ing and lighting reserved), damp-proofing.
Architects have received bids.Residence (triple), Chestnut Hill, Pa.
Architect, George S. Idell, 34 South Six-
teenth street. Owner, Jacob Disston, Ta-
cony, Philadelphia. Stone, 2½ stories, 40x
140 feet, slate roof, hot-water heating, elec-
tric lighting, hardwood floors. Architect re-
ceived bids May 5th.Store (alt. and add.), 139-141 Market
street. Architects, Guy King Co., 1527 Wal-
nut street. Owners, Owen & Bernard Ma-
guire, on premises. Consists of interior
alteration and addition, metal lath (heating
and lighting, reserved). Architects have re-
ceived bids.Factory, Second and Lippincott streets.
Engineer, W. E. S. Dyer, Land Title Building.
Owners, Joseph R. Foster & Sons, on prem-
ises. Brick, 4 stories, 57x83 feet, slag roof,
steel frames and sash (heating and electric
work reserved). Engineer taking bids, due
May 6th. The following are figuring: J.
Richard Jackson, Perry Building; Stacy
Reeves & Sons, 2011 Market street; J. G.
Doak & Co., Crozer Building; A. L. Fretz &
Sons, 1222 Chancellor street; G. L. Sipps, 912
Locust street; H. E. Baton, Twelfth and San-
som streets; Charles McCaul Company, 1713
Sansom street; H. E. Grau Company, 1709
Sansom street; Loos & Dothard, 1438 South
Penn Square.Church Building, Twenty-second and Moore
streets. Architects, Milligan & Pierson, 520
Walnut street. Owners, Twenty-second Street
M. E. Church, care of Dr. J. E. Gallagher, on
premises. Brick and stone, 2 stories and base-
ment, 42x125 feet, slate and slag roof (heat
and light reserved). Architects taking bids,
due May 8th. H. E. Baton, Twelfth and San-
som streets; A. Whitehead, Inc., 1624 Latimer
street; George F. Pawling Company, Broad
and Vine streets; H. H. Wehmeyer, 1004
West Lehigh avenue; Loos & Dothard, 1438
South Penn Square; Worrell & Waters, Rose-
mont, Pa., are figuring.Residence (alt. and add.), 4431-33 Spruce
street. Architect, Stanley Yocum, 5517 Mor-
ris street, Germantown. Owners, Kuhn &
Rump, on premises. Stone and concrete, 35x
30 feet, slate roof, electric lighting, tile
floors. Consists of new porch. Architect tak-
ing bids, due May 8th. F. E. Wallace, 1210
Sansom street; Guernsey-O'Mara, North
American Building; Smith-Hardican Company,
1606 Cherry street; William N. Thompson,
1539 Filbert street, are figuring.Shelter Shed and Tunnel, Wayne Junction,
Philadelphia. Architect, Otto Herald, Read-
ing Terminal. Owners, Philadelphia and
Reading Railroad Company, Twelfth and Mar-
ket streets. Brick, steel and concrete. Plans
in progress.Apartments (4), Baynton street and Chel-
ten avenue. Architect, E. Allen Wilson, 1208
Chestnut street. Owner, S. D. Large Estate,
352 Church lane, Germantown. Brick, 2
stories, 18x70 feet, slag roof, hot water heat-
ing, electric lighting. Architect taking bids
due May 11th. George A. Boyd, 1822 Erie
avenue; Joseph Bird Co., 213 North Eleventh
street; John Maginnis, 514 Walnut street;
Wiler & Hart, 122 South Thirteenth street;
Pringle Borthwick, 8018 Germantown avenue,
Philadelphia; Barber & Newberry, Ocean
City, N. J., are figuring.Residence (alt. and add.), 4105 Pine street.
Architects, Groben & Clark, 1006 Withers-
poon Building. Owner, Dr. Frank Reed, on
premises. Brick and plaster, 3 stories, 27x
40 feet, slag roof, electric lighting, oak floors
(heating, reserved). Architect taking bids
due May 9th. F. Roe Searing, Perry Building;
T. C. Trafford, 1613 Sansom street, are figur-
ing.If you've got a specialty that will com-
mend itself to builders, make a contract for
space and start right in and talk about that
specialty. Dwell on its good points, point
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bakery (alt. and add.), 1433 North Twelfth street. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Philadelphia Home-Made Bread Co., on premises. Brick, 2 stories, consists of interior alteration and addition, steel sash, metal lath. Contract awarded to Barclay White Co., Perry Building.

Resident (alt. and add.), 224 Walnut Lane, Germantown. Architects, Mellor & Meigs, 205 South Juniper street. Owner, Mrs. J. E. Keator, 224 West Walnut Lane. Brick and plaster, 2½ stories, tin roof, hot-air heating. Contract awarded to William C. Wright, 22 Harvey street, Germantown.

Warehouse (alt. and add.), 1211-13 North Third street. Architects, W. F. Lotz, 3463 East Helen street. Owners, Rice Bros., on premises. Brick, 3 stories, 17x64 feet, slag roof. Contract awarded to E. Chase, Welsh Road, Holmesburg, Phila.

Office and Apartment (alt. and add.), 115 South Sixteenth street. Architect, Lloyd Titus, Cape May, N. J. Owner, Frank B. Off, on premises. Brick, 3 stories, slag roof, electric lighting, oak floors. Contract awarded

ed to William R. Dougherty, 1610 Sansom street.

Building (alt. and add.), Sixth and Chestnut streets. \$3,000. Architect, Guy King, 1513 Walnut street. Owners, Guarantee Trust & Safe Deposit Co., 316 Chestnut street. Consists of interior alteration and addition, slag roof, steam heating, electric lighting, metal lath. Contract awarded to A. P. Fraim, 319 Market street.

Residence, St. Martin's, Phila. Architects, R. R. McGoodwin, 34 South Sixteenth street, Phila. Owner, Dr. George Woodward, North American Building. Stone and plaster, 2½ stories, 22x35 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to J. E. Walt, 204 Willow Grove avenue, Phila.

Garage and Stable, 6445 Greene street. \$4,800. Architects, Heacock & Hokanson, Bailey Building. Owner, A. C. Jackson, care of Miller Lock Co., 4523 Tacony street. Stone, 2 stories, 25x40 feet, slate roof, steam heating, electric lighting. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street.

PENNSYLVANIA

Construction News

Log Cabin Club House, Haverford, Pa. Architects, Boyd, Coneys & Abel, northeast corner of Fifteenth and Walnut streets, Philadelphia. Owners, Merion Cricket Club, on premises. Wood, 1 story. Architects received bids May 5th.

Dormitories (2), Spring City, Pa. \$120,000. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, Eastern Pennsylvania Institution for Feeble-Minded, care of George W. French, Harrisburg, Pa. Brick, fireproof, 3 stories, 57x115 feet, 64x125 feet, slate roof, electric lighting, steam heating, damp-proofing, metal weather strips, metal lath. Owners taking bids, due May 9. The following is the complete list of contractors figuring: Wells Construction Co., Witherspoon Building; A. Bottoms & Sons Co., 41 South Fifteenth street; Charles McCaul Co., 1713 Sansom street; Berry-Goodwin Co., Drexel Building; W. W. Anstine

Co., 1214 Filbert street; Fidelity Construction Co. Heed Building; James G. Doak & Co., Crozer Building; Mitchell Bros., 2125 Race street; Cramp & Co., Denckla Building; Ed. F. Fonder, Land Title Building; P. J. Hurley, 1233 Cherry street; J. E. and A. L. Pennock, Land Title Building; A. Whitehead, Inc., 1624 Latimer street; Ketcham & McQuade, 1029 Brown street; P. M. Sax, Heed Building; H. L. Brown, 1714 Sansom street; F. Roe Searing, Perry Building; Harrison C. Rea Co., 1027 Wood street; J. W. Emery, 1524 Sansom street; Guernsey-O'Mara, North American Building; D. T. McCarthy, 411 Walnut street, all of Philadelphia; W. H. Flick, Lancaster; J. P. Breneman, 135 North Duke street, Lancaster; W. Richman, Moorestown, N. J.; F. H. Keiser Co., Pottstown, Pa.; F. R. Heavner, Norristown, Pa.; J. Keenan, Phoenixville, Pa.; W. J. Elliott, Coatesville, Pa.

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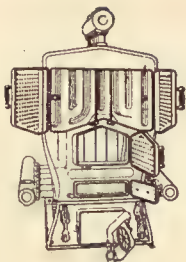
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Residence (alt.), Rydal, Pa. Architects, Zantzing, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Robert Sewell, Rydal, Pa. Consists of new porch and interior alterations, hardwood floors. Revised plans in progress.

Mining Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, State College, Pa. Brick and terra cotta, 2 stories. Plans about completed. Bids in about ten days.

Residence and Garage, Ardmore, Pa. \$10,000. Architects, Thomas & Churchman, 130 South Fifteenth street, Philadelphia. Owner, Charles Carver, Jr., St. Girard Building, Philadelphia. Stone and rough cast, 2½ stories, 25x50 feet, wing, 25x20 feet, slate roof, hot-water or hot-air heating, electric lighting. Architect ready for bids in a few days.

Chemistry Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owner, Pennsylvania State College, State College, Pa. Brick and terra cotta, 2 stories. Plans in progress. Bids in about one month.

Farm Building, Elkins Park, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, George F. Tyler, 131 South Fourth street, Philadelphia. Frame, 1½ stories, 53x48 feet, 40x16 feet, shingle roof (heating and lighting, reserved). Revised plans in progress.

Residence (alt. and add.), Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, G. F. White, Lansdowne, Pa. Consists of alterations and addition and new sleeping porch. Architects have received bids.

Hospital Building, Cresson, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Department of Health, care of Dr. S. Dixon, Nineteenth and Race streets, Philadelphia. Stone, fireproof, 4 stories, 100x200 feet, slate roof, electric lighting. Plans in progress.

Residence, Haverford, Pa. \$25,000. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Charles R. Wentz, Land Title Building, Philadelphia. Stone, 2½ stories, 68x35 feet, wing 29x30 feet, shingle roof, hot-water heating, electric lighting, white oak floors. Architects taking bids due May 13th. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street, Philadelphia; W. J. Stevens, Inc., Wyncote, Pa.; R. C. Ballinger Co., 218 North Thirtieth street, Philadelphia; F. B. Davis, 35 South Seventeenth street, Philadelphia; H. E. Grau Co., 1707 Sansom street, Philadelphia; Gray Brothers, Rosemont, Pa.

Bungalow, Drexel Hill, Pa. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Charles C. DeBeust, 5009 Walnut street, Philadelphia. Stone, 1½ stories, 40x40 feet, shingle roof, hot-water heating, electric lighting, hardwood floors. Owner taking bids. Harry Davis, Drexel

Hill, Pa.; W. D. Wilson, Drexel Hill, Pa., and E. O. Lobb, Llanerch, Pa., are figuring.

Residences (6), Noble, Pa. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner's name withheld. Stone and frame and plaster, 2½ stories, slate, tile and shingle roofs, hot-water heating, electric lighting, hardwood floors. Plans in progress. Architects will take bids in one week.

Residence, Haverford, Pa. \$100,000. Architects, Thomas Hastings, 225 Fifth avenue, New York City. Owner, Dr. S. Lewis Zeigler, 1625 Walnut street, Philadelphia. Hollow tile and plaster, 3 stories, 100x125 feet, slag roof, composition and oak floors, kalamain doors, waterproofing, weather strips, metal lath (heating and lighting, reserved). Architect taking bids due May 7th. George & Borst, 277 South Eleventh street; J. E. and A. L. Pennock, Land Title Building; J. S. Cornell & Sons, Land Title Building; J. Myers & Sons Co., Witherspoon Building; Pringle Borthwick, 8018 Germantown avenue, all of Philadelphia, are figuring.

Residence (alt. and add.), Conshohocken, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Philadelphia. Owner, William S. Perot, Conshohocken, Pa. Stone, 2½ stories, tin roof, electric lighting. Architect has received bids.

Boat House, Haverford, Pa. Architects, Thomas, Churchman & Molitor, 130 South Fifteenth street. Owner, Howard Longstreth, Haverford, Pa. Frame, 2 stories, 19x29 feet, shingle roof. Revised plans in progress.

Chapel, Linwood Heights, Delaware Co., Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, R. C. Church of the Resurrection, Linwood Heights, Pa. Stone, 1 story, 50x40 feet, slate roof. Plans in progress.

School Building, West Nanticoke, Pa. \$40,000. Architect, C. E. Rowe, 122 West Main street, Plymouth, Pa. Owner, Plymouth Township School Board, Alfred Warman, Secretary, Plymouth, Pa. Brick and stone trimmings, 2 stories, 45x92 feet, slate roof (hot-air heating and electric lighting, separate bids). Owners taking bids due May 15th.

Garage, Wilkes-Barre, Pa. \$8,000. Architect, Henry A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Daniel Meekin, Prospect street, Wilkes-Barre, Pa. Brick, 1 story, 70x40 feet, slag roof, cement floors, steam heating, electric lighting. Architect has received bids.

School, Wilkes-Barre, Pa. \$100,000. Architect, Robert Ireland, High School Building, Wilkes-Barre, Pa. Owner, City of Wilkes-Barre, Pa. Brick, stone, terra cotta and steel, fireproof. 3 stories, 136x82 feet, inlaid slate roof, high pressure steam heating, electric lighting, tile and terrazzo floors. Owners received sub-bids April 30th.

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High School, Plains, Pa. \$45,000. Architect, Guy W. Osterhout, Connell Building, Scranton. Owner, Plains Township School Board, Plains, Pa. Brick and stone, 2 stories, 67x98 feet, slate roof (blower system of heating and electric work, separate bids). Owners have received bids.

Bank (alt. and add.), Freeland, Pa. \$12,000. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, First National Bank, Freeland, Pa. Stone and brick, 3 stories, 75x36 feet, slag roof, steam heating, electric lighting, tile and marble work. Plans in progress.

Church, Shenandoah, Pa. \$50,000. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Annunciation R. C. Church, Shenandoah, Pa. Stone, frame and plaster, 1 story, 140x65 feet, slate roof, hot-air heating, electric lighting. Architect taking bids.

Bank Building, Wilkes-Barre, Pa. \$100,000. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owner, Wyoming National Bank, Wilkes-Barre, Pa. Brick, stone, marble and steel, fireproof, 2 stories, 78x90 feet, tile roof, steam heating, electric lighting marble and terrazzo work. Architects have received bids.

Cottage Crislyn, Pa. \$12,000. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner, Luzerne Co. Industrial School; A. Johnston, Secretary, Crislyn, Pa. Brick, 2½ stories, 47x52 feet, slate roof, steam heating, electric lighting. Owners taking bids.

School (add.), Oxford, Pa. \$10,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, Board of Education, Oxford, Pa. Brick, granite trimmings, 2 stories, 50x65 feet, slate roof, steam heating. Plans in progress. Owners will take bids May 15th.

Store and Residence, Lemoyne, Pa. \$4,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, name withheld. Brick, 2 stories, 25x60 feet, slag roof, steam heating, gas and electric lighting. Plans about completed. Architect will take bids in one month.

Picture Theatre, Harrisburg, Pa. \$20,000. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Peter Magare, 9 North Fourth street, Harrisburg, Pa. Brick, 1 story, 210x26 feet, slag roof,

steam heating electric lighting, tile work, composition floors. Plans in progress.

Residences and Stores (5), Harrisburg, Pa. \$7,500. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Morris Baturin, 609 Boas street, Harrisburg, Pa. Brick, 3 stories, 68x43 and 20x64 feet, slag roof, hot-air heating, electric lighting. Architect ready for bids.

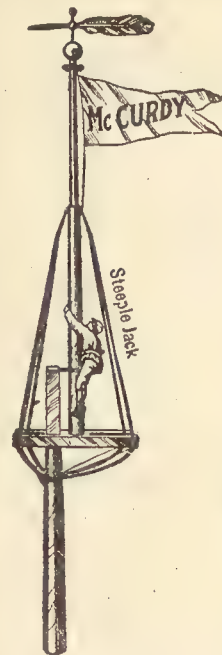
School, Manheim, Pa. \$50,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Manheim, Pa. Brick, 2 stories, 169x60 feet, slag roof, warm air heating, electric lighting. Owners taking bids due May 7th. The following are figuring: John W. Emery, 1524 Sansom street; Berry-Goodwin Co., Drexel Building, Philadelphia; W. J. Elliott, Coatesville, Pa.; Fink & Seidle, Reading, Pa.; F. J. Auxer, 642 East Chestnut street, Lancaster, Pa.; John M. Rhoads, R. F. D. No. 3, Manheim, Pa.; H. W. Hummer, Manheim, Pa.; J. T. Snyder, Florin, Pa.; N. W. Gingrich, Manheim, Pa.; C. W. Strayer, Union Trust Building, Harrisburg, Pa.; W. S. Roebuck, 1729 North Third street, Harrisburg, Pa.; D. D. Stauffer, Landisville, Pa.; D. S. Warner, Lancaster, Pa.

Home Building, Quincy, Pa. \$23,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, Quincy U. B. Orphanage Home, care of W. H. Washinger, Chambersburg, Pa. Stone or brick, 2½ stories, 30x100 feet, wing, 12x30 feet, slate roof, steam heating, electric lighting. Architect taking bids due May 14th. The following are figuring: W. A. Bentz, Scotland, Pa.; A. C. Warner, Waynesboro, Pa.

Bungalow, Sharon Hill, Pa. \$3,000. Architects, Durham Brothers, Heed Building, Philadelphia. Owner, W. F. Hazzard, Sharon Hill, Pa. Frame, 1½ stories, 34x50 feet, shingles or slate roof, heating not decided, electric lighting. Owners taking sub-bids.

Store (alt.), Carlisle, Pa. \$5,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, S. Kronenberg's Sons, Carlisle, Pa. Brick, 1 story, 30x100 feet, slag roof, electric lighting. Architect taking bids due May 14th. The following are figuring: James Porter, D. E. Brindle, H. A. Lackey, Hemminger Bros., all of Carlisle, Pa.

Residence (alt. and add.), Wilkes-Barre, Pa. Architects, Knaap & Bosworth, 15 South Franklin street, Wilkes-Barre. Owner, F. W. Ahlborn, Wilkes-Barre, Pa. Frame, 3



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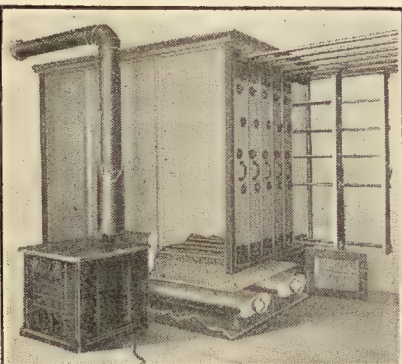
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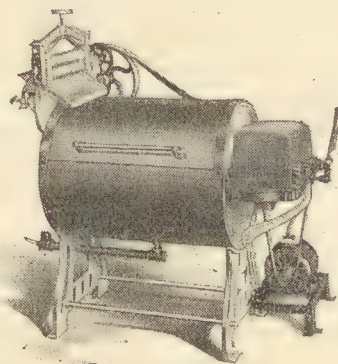
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Store and Apartment House (alt.), Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 15 South Franklin street, Wilkes-Barre. Owner, Estate of H. Bergunder, Wilkes-Barre, Pa. Brick, 3 stories, 52x70 feet, tin roof, steam heating, gas and electric lighting. Architects received bids May 1st.

School, Palmyra, Pa. \$65,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owner, Board of Education, M. R. Fisher, Secretary, Palmyra, Pa. Brick, 2 stories, 120x166 feet, slag roof, steam heating, electric lighting. Owners taking bids due May 11th. The following are figuring: Berry Goodwin, Drexel Building; J. W. Emery, 1524 Sansom street; A. Whitehead, Inc., 1624 Latimer street; Pomeroy Construction Co., F. Roe Searing, Perry Building, all of Philadelphia; C. W. Strayer, Union Trust Building, Harrisburg; Fink & Seidle, Colonial Trust Building, Reading, Pa.; Adam Spatz, Wernersville, Pa.; W. J. Elliott, Coatesville, Pa.

Parish House, Yardley, Pa. Architects, Heacock & Hokanson, Bailey Building, Phila. Owner, St. Andrew's Episcopal Church, Yardley, Pa. Stone, 1 story and basement, 32x67 feet, shingle roof, electric lighting. Architects ready for bids.

School, Cynwyd, Pa. \$0,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Lower Merion Township School Board, care of W. J. Byrnes, Ardmore, Pa. Brick and stone, fireproof, 2 stories, 46x130 feet, slag roof, metal lath (heat and light, reserved). Architect taking bids due May 15th. The following are figuring: A. Whitehead, Inc., 1624 Latimer street; Samuel Harting, 20 East Johnson street; Barclay White Co., Perry Building; A. Bottoms Sons Co., 41 South Fifteenth street; J. E. Kearney, 327 North Sixty-third street; A. L. Fretz & Sons, 1222 Chancellor street; Cramp & Co., Denekla Building; Pomeroy Construction Co., 1609 Ranstead street; H. E. Grau Co., 1709 Sansom street; James H. Wells, Heed Building; P. Haibach Construction Co., Twenty-sixth and Thompson streets; Henry L. Brown, 1714 Sansom street; P. J. Hurley, 1233 Cherry street, all of Phila.

Home Building, Quincy, Pa. \$23,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg. Owner, Quincy U. B. Or-

phanage Home, care of W. H. Washinger, Chambersburg, Pa. Stone or brick, 2½ stories, 30x100 feet, wing 18x30 feet, slate roof, steam heating, electric lighting. Architect taking bids due May 11th. F. Roe Searing, Perry Building, Philadelphia, is figuring in addition to those reported.

Residences (2), Reading, Pa. \$4,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Ed. G. Ruth, West Reading, Pa. Brick, 2½ stories, 28x48 feet, slate and tin roofs, hot air heating, gas and electric lighting. Owner taking bids.

Residences and Apartments (3), Tenth and Washington streets, Reading, Pa. \$16,000. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, Miss Mayer, on premises. Brick, stone trimmings, 3½ stories, 36x100 feet, tin roofs, hot air and hot water heating, gas and electric lighting. Plans in progress. Architect will take bids in 10 days.

Apartment House, Pearl and Franklin streets, Reading, Pa. \$4,000. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, George Tyson, South Fifth street, Reading, Pa. Brick, stone trimmings, 3 stories, tin roof, hot water heating, tile work, gas and electric lighting. Architect taking bids.

Lodge Building, Fourth and Court streets, Reading, Pa. \$10,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Knights of Malta, Henry S. Erb, Chairman Building Committee, Reading, Pa. Frame and steel, 1 story, 42x63 feet, slag roof, steam heating, gas and electric lighting. Plans completed. Architect ready for bids.

Residence (alt. and add.), Elizabethtown, Pa. \$8,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Vere Treichler, Elizabethtown, Pa. Stone and stucco, 2½ stories, 35x60 feet, slate roof. Plans in progress.

School, Myerstown, Pa. \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Brick and stone, 2 stories, slag roof, electric lighting, heating undecided. Plans in progress.

School, Leesport, Pa. \$16,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, School District of Onteleanne Township, Edmund Ahrens, Secretary, Landin, Pa. Brick, 2 stories, 88x51 feet, slag roof, hot air heating. Plans in progress. Owners will take bids in about 10 days.

ed to Mill Run Lumber Co., Meadville, Pa.

Shoe Factory (add.), Akron, Pa., \$7,500. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Miller Hess Company, Lancaster, Pa. Brick and concrete, 2½ stories, 50x60 feet, slag roof, steam heating. Contract awarded to L. V. Wright, 144 East Vine street, Lancaster.

Church (refaced), York, Pa., \$12,000. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's R. C. Church, York, Pa. Granite and terra cotta, 2 stories, 66x20 feet, slate roof. Contract awarded to Frank J. Colgan, 2205 North Broad street, Philadelphia.

Residence, Red Lion, Pa., \$10,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owner, James Sechrist, Red Lion, Pa. Brick, 2 stories, 31x50 feet, slate roof, vapor heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to W. A. Thompson, Red Lion, Pa.

Garage, Lancaster, Pa., \$3,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster. Owner, Franklin Williamson, Wheatland and President avenues, Lancaster, Pa. Brick and shingles, 1½ stories, 23x31 feet, shingle roof, electric lighting, concrete floors. Contract awarded to Samuel H. Bally, 514 South Shippen street, Lancaster, Pa.

Residence, Drexel Hill, Pa. Architect, private plans. Owner, W. H. Yocum, 1217 Market street, Philadelphia. Stone and frame, 2½ stories, 35x37 feet, slate roof (heat and lighting reserved). Contract awarded to Harry Davis, 5110 Westminster avenue, Philadelphia.

Garage, Cynwyd, Pa. \$2,600. Architects, Weldon & Hall, Twentieth and Green streets, Phila. Owner, Bromley Service, The Clinton, Phila. Frame, 2 stories, 24x20 feet, shingle roof, hot water heating, electric lighting. Contract awarded to Charles Gilpin, Harrison Building, Phila.

Residence (alt. and add.), Glenside, Pa. Architects, Heacock & Hokanson, Bailey Building, Phila. Owner, Miss A. H. Saunders, Glenside, Pa. Consists of interior alterations and additions. Contract awarded to William H. Eddleman, 453 Green lane, Roxborough, Phila.

Miscellaneous Construction News

Theatre, Salisbury, Md. Architects, Hoffman Company, Juniper and Market street, Philadelphia. Owners, Arcade Amusement Company, Salisbury, Md. Brick, terra cotta, 3 stories, 50x150 feet, slag roof, steam heating, electric lighting. Architects and owners taking bids, due May 15th. Roydhouse-Arey Company, Fidelity Building, Philadelphia; J. A. Bader Company, Du Pont Building, Wilmington, Del.; George Hogg, 1634 Sansom street, Philadelphia; Freund-Seidenback, Bulletin Building, Philadelphia, are figuring.

Dormitory, Frederick, Md., \$50,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owners, Hood College, Frederick, Md. Brick, stone trimmings, 3½ stories, 40x150 feet, slate roof, vapor heating, electric lighting, tile work. Plans in progress.

Residence (alt. and add.), Garrets Park, Washington, D. C. \$50,000. Architect, C. B. Keen, Baily Building, Philadelphia. Owner, Charles I. Corby, on premises. Brick, 2½ stories, 2 wings, 48x22 feet each, slate roof, hot-water heating, vapor heating, hardwood floors, 5 bathrooms. Architect taking bids due May 11th. Thomas M. Seeds, Jr., 1207 Race street, Philadelphia; F. L. Wagner, W. P. Lipscomb, C. A. Langley, all of Washington, D. C., are figuring.

Residence, Wilmington, Del. Architects, Hewitt & Granger, Bullitt Building, Philadelphia. Owner, Holstein Harvey, Wilming-

PENNSYLVANIA Contracts Awarded

Church, Harrisburg, Pa. \$23,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, Wesley Union Church, Harrisburg, Pa. Brick, brownstone trimmings, 2 stories, 44x107 feet, slate roof, steam heating, electric lighting. Contract awarded to C. W. Strayer, Union Trust Building, Harrisburg.

School, Somerdale, Pa. \$5,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, East Pennsboro School District, J. Bowers, Secretary. Brick, stone trimmings, 1 story, 40x60 feet, slate roof, hot-air heating, electric lighting. Contract awarded to W. B. Bushey, Lemoyne, Pa.

Arsenal Building, Harrisburg, Pa., \$44,900. Architect, C. A. Keyworth, Small Building, York, Pa. Owner, State of Pennsylvania, care of Samuel R. Rambo, Superintendent of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Concrete, hollow tile and terra cotta, 2 stories, 31x214 feet, slag roof, steam heating, concrete floors, electric lighting, metal frames and sash.

Contract awarded to C. W. Strayer, Union Trust Building, Harrisburg, Pa.

Residences and Garages (5), Ogontz, Pa. \$50,000. Architects, Oswald C. Hering and Douglas Fitch, 132 Madison avenue, New York City. Owner, W. E. Hering, 112 N. Twelfth street, Philadelphia. Stone, hollow tile and plaster, 2½ stories, shingle roofs, white oak floors (heating, plumbing, electric work, plastering, painting, tile work, reserved). Contract awarded to E. D. Lever, Abington, Pa.

Garage, Cynwyd, Pa. Architects, private plans. Owner, H. P. Liversidge, Cynwyd, Pa. Brick and plaster, 1 story, 16x18 feet, shingle roof, electric lighting (gasoline storage, reserved). Contract awarded to Chas. Gilpin, Harrison Building, Philadelphia.

Schools (2), Meadville, Pa. \$48,000. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owner, Board of Education, Meadville, Pa. Brick, 2 stories, 100x66 feet and 105x65 feet, slate roof, plenum system of heating, electric lighting. Contract award-

ton, Del. Brick and plaster, 2½ stories, 42x66 feet, slate roof, hot-water heating, electric lighting, hardwood floors, canvas roof. Architects received bids May 5th.

Service Building, Cincinnati, Ohio. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Car Co., Detroit, Mich. Brick and terra cotta, 5 stories, 156x163 feet, tile and slag roof, metal lath, metal doors and trimmings, damp-proofing, elevators, metal sash and frames, rolling steel doors (heating and lighting, reserved). Owners taking bids due May 8th. Irwin & Leighton, 126 North Twelfth street; Wells Construction Co., Witherspoon Building, Philadelphia, are figuring.

Theatre Building, Oliver avenue and Cherry Way, Pittsburgh, Pa. Architects, H. E. Kennedy Co., Pittsburgh, Pa. Owners, Harry Davis Co., Pittsburgh, Pa. Brick, terra cotta and concrete, 3 stories, 96x150 feet, composition roof, waterproofing, metal sash and frames, metal lath, steel doors and frames. Architect taking bids due May 11. Irwin & Leighton, 126 North Twelfth street, Philadelphia, Pa., are figuring.

Hotel, Barre, Vermont. Architect, R. C. Loos, 1017 Chestnut street, Philadelphia. Owners, City Hotel Co., Barre, Vermont. Brick, 4 stories, 60x125 feet, slag roof, steam heating, electric lighting, composition floors, elevators, waterproofing. Architect taking bids due May 6th. James C. Driscoll, Hale Building, Philadelphia, is figuring.

Municipal Building, Waterbury, Conn. Architect, Cass Gilbert, 11 East Twenty-fourth street, New York City. Owner, Building Commission, Waterbury, Conn. Brick, stone and terra cotta, fireproof, 3 stories, 212x202 feet, composition roof, steam heating, electric lighting, composition floors, damp-proofing, waterproofing, metal lath, elevators, safety treads. Architect taking bids due May 27th. J. E. and A. L. Pennock, Land Title Building, Charles McCaul Co., 1713 Sansom street, both of Philadelphia, are figuring.

Church, Montreal, Canada. Architect, S. R. Badgley, Cleveland, Ohio. Owner, Dominion Methodist Church, Montreal, Canada. Stone, 1 and 2 stories, 150x200 feet, copper roof (heating and lighting, reserved). Architect taking bids due May 6th. Thomas Reilly, 1616 Thompson street, Philadelphia, is figuring.

Residence and Garage, Cromwell, W. Va., \$25,000. Architects, De Armond, Ashmead & Bickley, 608 Chestnut st., Phila. Owner, Mrs. K. R. Hewitt, Bramwell, W. Va. Stone, 2½ stories, 65x70 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood floors. Architects taking bids due May 8th. The following are figuring: Graham-Campion Co., Heed Building; George & Borst, 277 South Eleventh street; Hoover & Sons, 1023 Cherry street; H. L. Brown, 1714 Sansom street; George F. Pawling Co., Broad and Vine streets; Wm. R. Dougherty, 1610 Sansom street, all of Philadelphia, Pa.

Theatres (2), Buffalo, N. Y., \$350,000. Architect, C. Howard Crane, Detroit, Mich. Owners, Mitchell H. Mark Palace Theatre Company, Buffalo, N. Y. Brick and terra cotta, 1 and 4 stories, fireproof, 125x170 feet, slag roof, electric lighting, waterproofing, metal lath, metal sash and frames, composition and tile floors, elevators. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Service Building, Atlanta, Ga. \$200,000. Architects, John Graham, Highland Park Bank Building, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Concrete, red pressed bricks and terra cotta, 3 stories, 139x295 feet, tar, gravel and tile roofs, metal sash, Kalamein doors, safety treads, damp-proofing and waterproofing (heating and electric lighting, reserved). Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Service Buildings, Wilmington, Del. Archi-

teets, De Armond, Ashmead & Bickley, 618 Chestnut street, Phila. Owner, H. Rodney Sharp, Wilmington, Del. Stone, 2½ stories, 65x35 feet and 22x40 feet, shingle roof, vapor vacuum heating, electric lighting. Consists of boiler house, garden house, garage, stable and laundry. Architect taking bids due May 13th. The following are figuring: George

& Borst, 277 South Eleventh street; William R. Dougherty, 1610 Sansom street; F. B. Davis, 35 South Seventeenth street, of Philadelphia; J. A. Bader & Co., duPont Building; W. D. Haddock & Co., 804 East Orange street; W. H. May, 1014 Rodney street, all of Wilmington, Del.

NEW JERSEY Construction News

Home, Longport, N. J. Architects, Hewitt, Granger & Paist, Bullitt Building, Philadelphia. Owner, Bamberger Home, Atlantic City, N. J. Hollow tile and plaster, brick, 2 stories and basement, 120x185 feet, asbestos shingle roof, marble interior, hot-water heating, electric lighting, waterproofing. Architects taking revised bids due May 7th. Thomas Little & Sons, 1723 Moravian street; John N. Gill Co., Heed Building; Roydhouse-Arey Co., Fidelity Building, Freund-Seidenbach, Bulletin Building, all of Philadelphia, are figuring.

Factory (add.), Third and Jefferson sts., Camden, N. J. Architects, Jacob O. Clark, 133 South Twelfth street, Philadelphia. Owners, MacAndrews & Forbes Co., Camden, N. J. Brick, 1 story, 81x87 feet, slag roof, rolling steel shutters, steel sash. Architect has received bids.

Manufacturing Building (add.), Trenton, N. J. Architect, private plans. Owners, American Steel & Wire Co., Trenton, N. J. Brick, steel and concrete, 3 stories, 72x171 feet, slag roof, steel rolling doors, steel sash and frames. Owners received bids May 4th.

Public Comfort Station, Atlantic City, N. J. \$15,000. Architects, Stout & Reibenack, Bartlett Building, Atlantic City. Owner, City of Atlantic City. Concrete, 1 story, safety treads, electric lighting, metal sash, composition floors. Revised plans in progress.

Pier (alt.), Atlantic City, N. J. \$1,000. Architects, Shull & Berry, Humphrys Building, Atlantic City. Owner, Million Dollar Pier, Atlantic City, N. J. Consists of frame lattice work, 50x30 feet. Plans in progress.

Store House, Morris Plains, N. J. \$15,000. Architect, George S. Drew, Capitol Building, Trenton, N. J. Owner, Board of Managers, State Hospital, Morris Plains, N. J. Brick, 2½ stories, 40x90 feet, slag roof, electric lighting, freight elevators. Plans in progress. Owners will take bids in two weeks.

Orphan Asylum, Hopewell, N. J., \$50,000. Architects, W. F. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, St. Michael's Orphanage, care of Rt. Rev. Bishop James A. McFaul, 153 North Warren street, Trenton, N. J. Brick, concrete and terra cotta, 4 stories, 50x96 feet, slag roof, steam heating, electric lighting, hollow tile. Architect taking bids due May 5th. The following are figuring: S. W. Mather & Son, A. J. Trier, D. A. Dugan, Burton & Burton, Steven Dickneit, all of Trenton, N. J., and H. J. Wenzelberger, Phillipsburg, N. J.

Residence, Trenton, N. J., \$10,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. C. Slack, 946 Parkside, Trenton, N. J. Hollow tile and stucco, 2½ stories, 38x30 feet, tile roof, heating, undecided, gas and electric lighting, hardwood floors, tile work. Owner will sublet all contracts.

Church (alt. and add.), Haddonfield, N. J. Architect, W. C. Prichett, 416 Walnut street,

Phila. Owner, Grace Episcopal Church, Haddonfield, N. J. Stone and brick, 2 stories, 40x86 feet, slate roof, electric lighting, extension to heating plant. Architect taking bids due May 9th. The following are figuring: F. L. Hoover, 1023 Cherry street; D. T. McCarthy & Sons, 411 Walnut street; Smith-Hardican Co., 1606 Cherry street, of Phila.; R. K. Lippincott, Strafford, N. J.; Samuel A. Dugan, Trenton, N. J.; William Wrifford, 724 Washington street; J. W. Draper, 1445 Mt. Ephraim avenue, and F. Turner, all of Camden, N. J.

Armory, Asbury Park, N. J. \$25,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey, Trenton, N. J. Brick, fireproof, 1 story and basement, 85x83 feet, slag roof, steam heating, electric lighting, metal lath. Owners taking bids due May 19th. Berry-Goodwin Co., Drexel Building; Metzger & Fisher, Denckla Building; J. W. Emery, 1524 Sansom street, Phila., are figuring.

Bungalow, Woodstown, N. J. Architect, Lewis A. Irons, 923 Chestnut street, Phila. Owner, Henry C. Lippincott, 6626 Greene street, Germantown, Phila. Frame, 1½ stories, 38x48 feet, shingle roof, hot air heating, electric lighting, hardwood floors. Architect taking bids due May 12th. Klos & Rieff, 1131 Race street, Phila.; Seagraves & Purtell, Woodstown, N. J.; John Rhoades, Darby, Pa.; W. H. Taylor, Darby, Pa., are figuring.

Loft Building, Haddon avenue, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Wood Manufacturing Co., Camden, N. J. Brick, 2 stories, 53x125 feet, slag roof, electric lighting, steel sash, water proofing. Architect taking bids due May 14th. Ketcham & McQuade, 1029 Brown street; Barclay White Co., Perry Building; Philip Haibach Construction Co., Twenty-sixth and Thompson streets; Smith-Hardican Co., 1606 Cherry street, of Phila.; Bareklow & Fulton, 506 Cherry street, and Frank Turner, 828 Broadway, both of Camden, N. J., are figuring.

Home Building, Bridgeton, N. J. Architect, H. L. Reinhold, Jr., 1309 Walnut street, Phila. Owner, Benevolent Order of Elks, care of James S. Ware, Chairman of Building Committee, Bridgeton, N. J. Brick, 3 stories, 44x70 feet, slag roof, steam or hot water heating, electric lighting. Architect taking bids due May 13th, at noon. Hankins Bros., Grosseup & Son, Bateman & Miller, Carlil Bros., Walter Turner, all of Bridgeton, N. J.; W. A. Titus, Paulsboro, N. J., and James H. Wells, Heed Building, Philadelphia, are figuring.

Armory, New Brunswick, N. J. \$25,000. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey, Trenton, N. J. Brick, fireproof, 1 story and basement, 99x75 feet, slag roof, steam heating, electric lighting, metal lath. Owners taking bids due May 19th. Berry-Goodwin & Co., Drexel Building; Metzger & Fisher, Denckla Building, Phila., are figuring.

NEW JERSEY

Contracts Awarded

Cottage and Chapel, Clinton, N. J. Architect, George S. Drew, Trenton, N. J. Owners, Department of Correction and Charities, Trenton, N. J. Brick and plaster, 2½ stories, 29x127 feet, slate roof, hot water heating, electric lighting, metal lath. Lowest bid submitted by Berry-Goodwin Company, Drexel Building, Philadelphia, at \$24,279.

Residence, Atlantic City, N. J. \$15,000. Architects, Stout & Riebenack, Bartlett Building, Atlantic City. Owner, H. B. Cook, Seaside House, Atlantic City, N. J. Brick and stucco, 2½ stories, 61x56 feet, slate roof, hot-water heating, electric lighting, hardwood floors, tile work. Contract awarded to Nicholas L. Young, 16 South Ohio avenue, Atlantic City, N. J.

Garage, 1503 Pacific avenue, Atlantic City, N. J. \$3,500. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, M. C. Munson, on prem-

ises. Brick and steel, 1 story, 40x60 feet, slag roof, hot-water heating, electric lighting, concrete floors. Contract awarded to James Steelman, 12 South Connecticut avenue, Atlantic City, N. J.

Residence, Riverton, N. J. \$25,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, W. A. Hendrickson, Riverton, N. J. Stone and frame, 2½ stories, 28x50 feet, slate roof (hot-water heating, reserved; electric lighting, reserved). Contract awarded to Thomas M. Seeds, Jr., 1207 Race street, Philadelphia.

Cafe (alts.), 14 South Warren street, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Edward J. Mahoney, on premises. Consists of general interior remodeling. Contract awarded to Samuel Wiley, 517 Monmouth street, Trenton, N. J.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

T. MacDowell, 2125 Uber street. M. S. Oberholtzer (C), 5524 Pulaski avenue. Cost, \$15,000. Dwelling, brick, 3 stories, 22x27 feet, Navahoe and Moreland streets.

H. P. Schneider (D), 3713 Old York Rd. Cost, \$40,800. 24 dwellings, brick, 2 stories, 15x30 feet, Camac and Courtland streets. Cost, \$40,800. 24 dwellings. Cost, \$2,500. Store and dwelling. Cost, \$2,500. Store and dwelling.

H. C. Hallinger (O), 600 South Forty-eighth street. Concrete Construction Co. (C), 2009 Market street. Cost, \$2,000. Hotel, brick, 2 stories, 40x30 feet, 4001 Walnut street.

Edward Stott (O), Second and Fisher Lane. Cost, \$8,000. 4 dwellings, brick, 2 stories, 12x29 feet, Palethorp and Loudon streets.

M. K. White (O), Bon Air Farms. C. White Bros. (C), 5410 Haverford avenue. Cost, \$3,000. Office, brick, 2 stories, 20x48 feet, Sixty-first and Haverford avenue.

Keller Bros. (O), 480 Harmon Road. Cost, \$8,000. 4 dwellings, brick, 2 stories, 15x38 feet. Cost, \$4,600. 1 dwelling, Sheldon and Hermitage streets.

A. Bates (O), 448 Hermitage street. C. M. Swartley (C), 6835 Ridge avenue. Cost, \$3,200. Dwelling, brick, 2 stories, 25x32 feet, Livezey and Ridge avenue.

W. C. Root (O), 524 Race street. F. E. Wallace (O), 1210 Sansom street. Cost, \$2,000. Factory, 524 Race street.

Mrs. C. A. Beittenmiller (O), Manoa, Del. Co., Pa. Home Building Co. (C), 36 North Frazier street. Cost, \$1,000. Storage, 896 North Fiftieth street.

H. Percival Johnson (O), 4039 Lancaster avenue. Cost, \$30,000. Six dwellings, brick, 3 stories, 23x34 feet, Sixty-third and Nassau streets. Cost, \$50,000. Ten dwellings.

H. C. Connor (O), Bailey Building. D. Pennock (C), 5221 Webster street. Cost, \$2,200. Two dwellings, 16x27 feet, 2111-13 Clymer street.

G. A. Parker (O), 720 Chestnut street. B. F. Virden (C), 2917 Fletcher street. Cost,

\$7,000. Manufacturing, brick, 2 stories, 40x56 feet, 2733 North Twelfth street.

A. T. Cantrell (O), 551 East DuPont street. G. W. Robinson (C), 515 Conarroe street. Cost, \$2,800. Dwellings, brick, 2 stories, 26x29 feet, Livezey and Ridge avenue.

Love & Israel (O), 2302 North Mascher street. Socolove & Gluckman (C), 1715 Franklin street. Cost, \$11,000. Synagogue, brick, 2 stories, 36x93 feet, 2302 North Mascher street.

F. Perry (O), 5013 Wakefield street. J. Thurman & Co. (C), 92 Collom street. Cost, \$3,000. Factory, brick, 2 stories, 24x59 feet, 5013 Wakefield street.

J. W. Shisler (O), Second and Durfor streets. Cost, \$24,000. Twenty dwellings, brick, 2 stories, 14x25 feet. Cost, \$1,800. Store and dwelling, 1910 Clarence street.

W. Kowalski (O), 3370 Edgemont street. Cost, \$1,200. Dwelling, brick, 2 stories, 16x26 feet, Edgemont and Ontario streets.

Board of Education (O), City Hall. Cramp & Co. (C), Denckla Building. Cost, \$190,000. School, brick, 3 stories, 152x74 feet, Forty-seventh and Locust streets.

Silver & Bain (O), 417 McKean street. J. S. Silver (C), 417 McKean street. Cost, \$14,400. Eight dwellings, brick, 2 stories, 14x28 feet, Aramingo and Cambria streets. Cost, \$2,400. Store and dwelling. Cost, \$14,400. Eight dwellings. Cost, \$2,400. Store and dwelling.

D. Tombeski (O), 1728 Cayuga street. Cost, \$2,800. Two stores and dwellings, brick, 2 stories, 20x39 feet, Eighteenth and Love streets.

H. C. Dahl (O), 231 South Eighth street. Cost, \$17,000. Apartment, brick, 3 stories, 28x95 feet, 235 South Third street.

Herman Berkeshoff (O), 5156 Haverford avenue. Cost, \$27,000. Eighteen dwellings, brick, 2 stories, 16x33 feet, Hirst and Spruce streets. Cost, \$27,000. Eighteen dwellings. Cost, \$2,000. One dwelling. Cost, \$2,000. One dwelling.

Oak Lane Baptist Church (O), Oak Lane. Alexander Chambley (C), 243 South Tenth

street. Cost, \$22,000. Church, stone, 1 story, 125x150 feet, Oak Lane, Philadelphia.

J. H. Jones (O), 505 South Eighteenth street. G. D. Heath (C), Ninety-first and Bartram avenue. Cost, \$1,600. Dwelling, brick, 2 stories, 17x32 feet, Seventy-fifth and Buist avenue. Cost, \$1,600. Dwelling.

The Bell Co. (O), Hancock and Pollard streets. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$4,000. Stores, brick, 1 story, 30x55 feet, Fifth and Duncannon streets. Cost, \$3,000. Three stores.

George S. Roe (O), 6935 Paschall avenue. Cost, \$6,000. Four dwellings, brick, 2 stories, 15x26 feet, Seventy-first and Yocum streets.

John Schmunck (O), 612 West Cambria street. Cost, \$2,500. One dwelling, brick, 2 stories, 15x43 feet, Eleventh and Loudon streets.

H. F. Kettman (O), 2434 West Clearfield street. Cost, \$2,300. Store and dwelling, brick, 2 stories, 14x41 feet, Twenty-sixth and Ontario streets. Cost, \$3,500. Store and dwelling. Cost, \$21,000. Seventeen dwellings. Cost, \$21,000. Seventeen dwellings. Cost, \$2,300. One store and dwelling. Cost, \$6,900. Three stores and dwellings. Cost, \$42,000. Thirty-four dwellings.

Harold S. Swope (O), 5028 Frankford avenue. Cost, \$15,000. Six dwellings, brick, 2 stories, 15x30 feet, Z and Griscomb streets. Cost, \$1,500. One dwelling.

J. J. Greenberg (O), Morris Building. H. Gill, Jr., 2515 Germantown avenue. Cost, \$50,000. Factory, brick, 4 stories, 51x189 feet, 206 South Twenty-fourth street.

J. C. Sneden (O), 1705 South Thirteenth street. Cost, \$4,800. Two dwellings, brick, 2 stories, 16x30 feet, 1836 South Twentieth street.

L. K. Silifer (O), 4250 North Broad street. Cost, \$6,000. Garage, brick, 2 stories, 40x100 feet, Broad and Courtland streets.

Alterations and Additions

W. R. McShain (O), 816 Carpenter street. H. Hobert (C), 2620 Cumberland street. Cost, \$2,500. 816 Carpenter street.

Point Breeze Park (O), Drexel Building. Lam Building Co. (C), 1001 Wood street. Cost, \$1,900. Stand, Twenty-fifth and Penrose Ferry Road.

J. Kendrick (O), 1015 Spring street. Geo. Kessler (C), Drexel Building. Cost, \$2,000. Stable, 1015 Spring street.

J. F. Keator (O), 218 West Walnut Lane. W. C. Wright (C), 22 Harvey street. Cost, \$1,150. Dwelling, 224 W. Walnut Lane.

M. J. Dunn (O), Fifteenth and Lehigh avenue. C. E. Long (C), 1120 Mt. Vernon street. Cost, \$2,500. Saloon, Fifteenth and Lehigh avenue.

Octavia Hall Association (O), 613 Lombard street. Cost, \$1,000. Store and dwelling, 948 North Third street.

H. G. Freeman (O), 1515 North Broad street. D. Graham (C), 1822 Morris street. Cost, \$1,800. Dwelling, 1324 Oxford street.

Thomas Hamilton Sons (O), 1340 Berks street. J. Dillon (C), 1137 Frankford avenue. Cost, \$3,000. Manufacturing, 1340 Berks street.

H. H. Adams (O), Chestnut Hill, Pa. Stokes Bros. (C), 6723 Musgrave street. Cost, \$6,500. Dwelling, Chestnut Hill, Pa.

Board of Education (O), City Hall. E. C. Durell (C), 1713 North Twenty-fourth street. Cost, \$15,000. School, Nineteenth and Reed streets.

Dungan & Hood Co. (O), American and Susquehanna avenue. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$10,000. Manufacturing, American and Susquehanna avenue.

F. C. Summer (O), 706 Watkins Building.

D. Henon (C), 1425 Ritner street. Cost, \$1,075. Store and dwelling, 1403 South Fifty-second street.

J. Gorchov (O), 317 Reed street. Cost, \$1,000. Dwelling, 2030 South Eighth street.

J. J. Felin & Co. (O), 4148 Germantown avenue. H. Brocklehurst (C), 512 West Norris street. Cost, \$19,000. Manufacturing, 4148 Germantown avenue.

Guarantee Trust Co. (O), 320 Chestnut street. A. P. Fraim (C), 319 Market street. Cost, \$2,520. Store, Sixth and Chestnut street.

J. Bromley (O), Adams and Leiper streets. G. H. Thrisk (C), 2739 Jasper street. Cost, \$1,913. Manufacturing, Adams and Leiper streets.

H. C. Connor (O), Bailey Building. D. Pennock (C), 5221 Webster street. Cost, \$2,100. 2112 Fitzwater street.

J. J. Kohr (O), 5551 Jefferson street. Cost, \$2,000. Garage, Fifty-sixth and Jefferson streets.

F. M. Colston (O), 2011 Arch street. Cost, \$4,000. Hall, 2015 Arch street.

Schorschi & Kane (O), Seventeenth and Erie avenue. Cost, \$1,000. Apartment house, Twenty-first and Ontario streets.

A. H. Them (O), 3532 Longshore street. N. Morrison (C), 2232 North Howard street. Cost, \$1,200. dwelling and store, 2232 North Howard street.

Union Petroleum Co. (O), 135 South Second street. C. W. Denny (C), Hale Building. Cost, \$1,300. Stable, Water and Mifflin streets.

N. De Gregorio (O), Tenth and Carpenter streets. Cost, \$2,000. Dwelling, 928 Annin street.

Chelsea Trust Co. (O), 5614 Germantown avenue. Cost, \$1,000. Office and store, 5612 Germantown avenue.

E. Vahle (O), Merchantville, N. J. T. F. Harpel (C), 455 North Eighth street. Cost, \$1,200. Stores, 319 Market street.

J. C. Clindinin (O), 3600 Powelton avenue. J. N. Gill Co. (C), Heed Building. Cost, \$2,000. Dwelling, 3600 Powelton avenue.

Mrs. C. H. Howell (O), Torresdale. J. Sims Wilson Co. (C), 1125 Brown street. Cost, \$10,000. Residences, Torresdale, Pa.

Ed. Darby & Sons (O), 412 North Eighteenth street. Cost, \$1,200. Shop, 420 North Eighteenth street.

Magnolia Benefit Association (O), 2535 Frankford avenue. J. Deitrich, Jr. (C), Potter and H streets. Cost, \$5,200. Store and dwelling, 2535 Frankford avenue.

J. J. Connor (O), 5128 Regent street. Pugh & Hubbard Co. (C), Witherspoon Building. Cost, \$2,000. Theatre, Fifty-second and Greenway avenue.

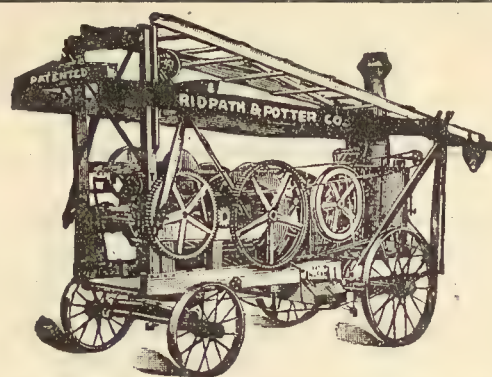
J. M. Morris (O), 202 South Second street. H. C. Dahl (C), 231 South Eighth street. Cost, \$800. Dwelling, 5151 Walnut street.

Whildin Pottery Co. (O), 713 Wharton street. Cost, \$1,000. Stable, 708 Latona street.

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THE EMPIRE PERIOD

Of all the styles developed in France, that of the Empire Period is least interesting and least French. It lacks the dignity of Louis XIV, the originality of Louis XV, and the grace of Louis XVI. It lacks refinement and it lacks spirituality. But it is massive, pretentious, classic; and it possesses the kind of showy magnificence by which the multitude are impressed, so that its influence was dominant in furniture and decoration throughout Europe and America long after Napoleon had met his Waterloo.

It is a mistake to regard the Empire style as merely the personal handwork and expression of the Emperor. He and his Empire alike were the creatures of stupendous world forces that finally destroyed those whom they had created.

Just as the year following the death of Louis XIV on the guillotine in 1793 were years of preparation for the Empire, so the same years were decoratively merely the advance guard of the Empire Period. In other words, there is a unity about the decorative styles that flourished not only under the Empire (1801-14), but also before and after the Empire (1793-1830).

I have spoken of the style of Louis XVI as the most classic of the three great Louis styles. Even more classic is the Empire style. But it is classicism of a distinctly inferior type.

The style of Louis XVI is thoroughly French and has much originality of detail, composition and feeling. It is a style developed on classic principles to meet local conditions. It is, of all modern styles, the one most Greek in proportion and inspiration.

The Empire style is classicism of a different character. Though it avowedly copies Greek models, it is Russian rather than Greek, and instead of reproducing intelligently and sympathetically, copies boldly and badly classic ornament and Russian mannerisms. It apes unblushingly the severity of republican Rome and the grandiosity of imperial Rome.

Nevertheless, it does represent exactly what Napoleon would have wished it to represent, had he, instead of God, been responsible for the French Revolution and the French Empire, and the styles that expressed them. He himself was put forward as successor of the ancient Roman emperors, Roman laws and Roman titles were copied.

Roman costume was revived in women's gowns. Roads and buildings were constructed after the models of ancient Rome. In every possible way, by every external sign and symbol, the assumption of imperial authority by Napoleon was made to seem reasonable and natural.

Of the Empire period in decorative art, if David was the god, the architects of Percier and Fontaine, whose books of engraved designs of Empire furniture and interior decorations, published in 1812, is the fountain head of information on the subject, were his prophets.

In 1794 they were appointed to supervise the decorations of the Opera House. Between 1804 and 1812, they had charge of the Louvre and the Tuileries, restoring the colonnade of the Louvre, completing the upper story of the buildings on the court, and designing the great stairway of the Louvre that was removed by Napoleon III. They also designed many private residences not only in Paris but in Antwerp, Brussels, St. Petersburg, Venice, Florence and Rome.

The point of view of Percier and Fontaine is made quite clear in the preface to their volume of Empire designs mentioned above. They say: "We have thought it useful to employ engraving in assembling these four works in the field of interior decoration which, either from the importance of their destination, or from the rank of those who ordered them, may be regarded as appropriate to attest the manner of seeing, composing, and adorning of the present period."

"The style does not belong to us, but entirely to the ancients; and as our only merit is to have understood how to conform our inventions to it, our real aim in giving them publicity is to do everything in our power to prevent the mania for innovation from corrupting and destroying principles which others will doubtless use better than we."

The descriptions of the various plates are interesting, particularly of the Emperor's throne at the palace of the Tuileries and of a saloon executed at the Chateau of Malmaison for the First Consul which "had to be finished in ten working days in order not to interrupt the frequent visits being made there."

The architect Norman also published a valuable book of Empire designs.

(Continued on page 294.)

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Irving Dillon.....Editor

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Editorial Comment

Experiments with a new building material made at Netherwood, Englewood and Plainfield, N. J., have been so completely successful that architects everywhere are following the result with the greatest interest. This new material, known as Tex-Tile, consists of hollow tile blocks, such as are commonly used for exterior walls, except that in place of using the regulation 12x12, a block 12x5x $\frac{3}{4}$ inches is the accepted unit.

Frederick Squires, an architect, is the originator of the new material. Feeling that an excellent textural finish could be had if it were possible to use bricks larger than the regulation size, and knowing the impracticability of baking to required hardness a brick exceeding three inches in thickness, the thought occurred to Mr. Squires of employing a hollow tile block smaller than those in general use. The first experiment, the Englewood house, employed tile only, without any attempt at decorative effect. In the Netherwood house brick to match the tile was used to reinforce and set it off at certain points, with most gratifying results. Mr. Squires expresses himself as delighted with the charming color effects secured by the blending of these mediums resembling, to use Mr. Squires' own words, the delicate effects of a rare old Oriental rug. By varying judiciously the size and shape of the tile blocks, this surface texture may be accentuated to suit the fancy of the designer. To what lengths this feeling for texture and color may be carried when the manufacture of these blocks reaches the skill and artistry shown in texture brick, who can say?

The Tex-Tile wall, quoting Mr. Squires, "has the charm of all things put together by hand—the craftsman's look. It has infinite variety. The ensemble is solid and dignified, and the house looks like a building that has been put there to stay. It is frank and outspoken as to its own construction, whose character the merest novice could never mistake. As to the effect produced by the walls, the uneven thickness of the joint, the surface of the joint itself and the slight variation in courses, all combine to bring about the pleasing result."

What will be done with the new tile when it comes to be combined with architectural terra cotta, concrete and faience remains to be seen. So far it has been tried out only with brick. Whether it will lend itself to the various bonds and joints associated with texture brickwork has yet to be disclosed. That it is a highly desirable and altogether promising material has been most convincingly demonstrated. It now behooves some of the younger men of the craft to take hold of it and show to what frontiers of artistic achievement it may be pushed. Its comparative inexpensiveness should commend it to people seeking the quaint and the unusual within the limitations of a reasonable outlay.

Mr. F. W. Fitzpatrick, who goes at architectural subjects on the good old Donnybrook principle of "Where you see a head hit it," is at it again. Fitzpatrick's latest is a diatribe entitled "The Thrall of the Axis," in which he hands "a terrible fillip on the scone" to those of his architectural brethren who permit themselves to be dominated by the theory of "balance."

"Nowhere," writes this iconoclastic Fitzpatrick person, "does the average and, indeed, even many of the exceptionally brilliant in our profession, show the almost exclusively academic, theoretic and altogether unpractical training we receive than in our abject submission to the thrall of the axis, the paper attractiveness of our projects, the unyielding insistence we place upon an imaginary, a drawn 'balance' that in reality generally means absolutely nothing."

"This was particularly impressed upon me," says Fitzpatrick, "by the plans recently submitted to me for a great city by a great architect. The what I call 'fatal defects' in his plan, however, obtains in pretty nearly everything that has been devised in the line of city betterments, civic centers and such projects in recent years, beginning with the Art Commission's plan of reformed Washington ten years ago. In these plans I have before me the 'balance' is carried to a ridiculous extreme. Of course, there is a central avenue, a monumental affair, an axis. Well, over on one side of that axis is an athletic field and gymnasium for men. The natural and reasonable thing to have done would have been to make a larger gymnasium and used it for men and women, some rooms and apparatus and the field in common or on alternate days, and all under one executive management. But no. That would not have balanced on the axis, so, equally distant from the axis on the other side is planned a similar field and building for women, a mile away from the men, a senseless duplication of halls and apparatus and stadium, and all just to preserve a fictitious balance that would never be appreciated or even perceived save on paper or possibly dimly so from an aeroplane traveling very low and very slowly."

* * *

Fitzpatrick tells of another "Civic Center Affair," in which to obtain a balancing street for an avenue planned on the left the architect recommended the purchase and demolition of miles of expensive property, rejecting as not adaptable an existing avenue admirably suited to his needs because at a slightly different angle and therefore—on paper—out of balance.

But, just hear him:

"And we carry the same absurd relics of our faulty schooling into our lesser endeavors than city planning. If we design a library or other more or less monumental building the whole thing must be abjectly subservient to

the most exacting of masters, the great Axis. We establish that sacred and imaginary line. Then plan-exigencies decree that on the right of it we have a monumental stairway. Immediately we slap another stairway, to balance it, on the left. No matter if that stairway serves no practical purpose, or if it would be infinitely more useful in some other part of the building, it must go right there, nowhere else; the beauty and even balance of the plan must be sacredly preserved. If we plan a lot of rooms one side of a corridor and the purposes of the building make a row of shorter rooms on the other side desirable we'll tear our shirts and spend many simoleons of our client's money to keep those rooms exactly the same depth each side of the fetish axis of that corridor. What matters the practical requirements of the building or the fact that no one will ever notice the difference unless he sees the plan? The aeroplane possibility is nil owing to the intervention of the roof. So it must be to preserve the inviolability of the sanctified axis on the plans in his store room that the architect will resort to such trouble and expense in the pursuit of that perfect symmetry that passeth our understanding!

"Why, I'm amazed that the ultra-altruistic, the real Beaux Arts product should let the unbalanced door knob or bell button get by him. I fully expect to see, ere long, a door knob on either hand of the central axis of the door, a bell button on either jamb of the door and face butts on both edges to preserve the perfect balance, the symmetry so dear to our artistic souls.

"Are there none among us who are brave enough to get from under the thrall of the axis? Must our schools always dally with theories and frills and instill nothing but the purely academic flub-dub into our young? No, I am not clamoring for an inartistic solution of our practical problems, but I do vociferously pray and beseech my fellows to throw away their fetiches, break up their golden calf and false gods, the Axis, the Great Temple, the Antique, the abject worship of All that Has Been. We have new problems—the ancients never dreamed of them and our teachers got but little of them—we have new materials, we have novel and complex conditions to cope with, commercial, domestic, religious; let us face them like men; let us give the client what he really needs (not merely what will please our eye on paper), what will produce the very best results in facilitating his business operations, or in producing the greatest profit. Doing that, we will prove our claim to efficiency. Then let us build well and sanely and proceed to decorate the simple and truthful structure in a dignified, consistent and really artistic manner. Then, and then only, will we be real architects and will have graduated from the class of mere copyists of antiquity, jumblerers of our problems, hack workmen, worshippers of the frayed-out theories and of the overworked axis."

* * *

Of course, Fitzpatrick is an extremist, and much of his protest is what Artemus Ward

would call "writ sarkastik," but isn't there a wholesome nubbin of reason in much of his contention? Why preserve this paper balance, when it is neither practical nor necessary?

Where the project is big enough to permit of a legitimate disregard for this axis fetish, why not do the practical thing just as if no paper requirement existed to dictate otherwise? Why sacrifice the essential to the little tin god of "balance?"

* * *

That the lot of the average architect, like that of Mr. Gilbert's constabulary, in "The Pirates of Penzance," is not a happy one, is evidenced in certain recent editorial utterances in our distinguished contemporary, "The Engineering Record."

"Before passing hasty judgment upon the architect of our own times, think a moment of the evil days upon which he has fallen," comments the "Record." "In the mediaeval times he must perforce know only the technique of masonry—the rest was his art. If he were building a church the fine stimulus of the Gothic was his inspiration and his medium was craftsmanship in stone. To-day he must know masonry and concrete, structural steel and sanitary plumbing, lighting and heating, electric wiring and acoustics. The old congregation did not need to read and mostly couldn't, expected to be cold and generally was, could not understand the Latin of the service even if it chanced to hear it.

"His predecessor did not have to plan for buying his stone from one source, his steel from another and his woodwork from a third; he was not hounded by agents of patented devices nor pestered by circulars of supplies offering his 'the usual architect's commission of — per cent.' All these things the architect of to-day has to endure, besides being called a slavish copyist if he turns to the best in antiquity and a commonplace innovator if he does not.

"His chief hope is in suiting himself as best he may to new conditions, calling in technical advisers on the details which he cannot in the nature of things have time to master, even if he has the ability, standing the more firmly by the interests of his client as he confronts a regiment of sub-contractors, and remembering that he must be artist before being engineer or contractor. Originality and resourcefulness are much more difficult to find than technical or constructional skill, and if the architect is to be more than a master mason or boss concrete mixer, it must be by the possession of these attributes. Art did not die with the Gothic nor perish with the Romanesque. The times have changed and the architect must change with them."

* * *

In an address delivered last month before the Washington Chapter of the American Institute of Architects, Mr. R. C. Erskine gave it as his opinion that architects as a class "were entirely too modest, and that they should advertise in some form or other much more than they do at present." May we commend this remark to those architects who,

governed by false modesty, have hesitated about the propriety of furnishing portraits and data for the "Guide's" "Who's Who" series. This series is still pending, and the list still open. We trust the coy and hesitant gentlemen who have been hanging back to debate the propriety of the idea will be able to perceive the absolutely untenable nature of their misgivings and be moved to supply the necessary data.

THE OLD BUILDING QUARREL.

The old quarrel between friends and foes of the festive skyscraper goes merrily on, and is centered just now in Minneapolis. The same old arguments are cited in the same old way, and the amount of unprejudiced, common-sense reasoning done on the subject is negligible.

It is reported from New York that recent skyscrapers have not paid, that the great record breaker is still empty in all its upper floors, and that tenants in other top-lofty structures are seeking rooms nearer the ground. If this be true, the quarrel referred to is likely to become somewhat less bitter, but like other disputes, it will last until "settled right."

The proposition of Ernest Flagg, architect of the Singer tower, seems to come nearer a rational solution of the problem than any other yet offered. Flagg would fix a height to which all buildings might go. The man who wished to build higher could do so—on 25 per cent. of the area of his lot. He might buy of his neighbors their rights in this upper air, but in no case could more than one-quarter of a block be covered by structures of more than the standard height.

The effect of such a building ordinance would be to build up a city of towers. The possible beauties of such construction need no exposition, while it would insure a larger proportion of rooms with light and air than any level system could do.—"American Carpenter and Builder."

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—Ex.

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THE EMPIRE PERIOD.

(Continued from page 291.)

The Empire style was essentially warlike. Flaming torches, eagles, stars, garlands and mythological signs—the helmet of Minerva and the thunderbolt of Jupiter—were used everywhere. Respectable old grocers had war trophies painted on their drawing room walls. The laurel wreath was as characteristic of the age of Napoleon as ribbons and baskets were of Marie Antoinette. With an N inside of it and an eagle above, the wreath served for the throne room; with a lyre, for the music room; with the name or portrait of Racine or Moliere, for the library; with J for Josephine's room, and so on.

The Empire star is said to represent Napoleon, and the bees his industrious subjects. They were, in a manner, the trademarks of the Emperor and served to advertise the fact that he had annexed and assimilated the Revolution and the Return to Roman Ways. The bees had their decorative origin in Merovingian times and were a sign that Napoleon claimed to be the legitimate successor of the ancient kings of that early period.

The sphinx and other Egyptian details recall Napoleon's Egyptian campaign.

Other common Empire motifs were vases, anthemias, harps, coruncopias, swans, lions, cupids, caryatids, rosettes, etc. Stripes were often used on walls, and small detached ornamental figures were geometrically arrayed on fabrics. Chairs were upholstered in damasks, velvets or prints. Draperies were hung flat or in simple folds after the Pompeian or ancient fashion, and embroidered velvets added solemn grandeur to halls of state.

Furniture was solid and heavy, made of mahogany, rosewood or ebony, and adorned with brass or bronze mounts. Flat surfaces

were often veneered, and often inlaid with metal or ivory.

The front legs of chairs were mostly straight, the rear legs curved in the classic style. The front legs were sometimes fluted as in the style of Louis XVI, but were in the form of bundles of arrows and fasces.

Beds were low and massive, usually with head and foot boards of the same bright, but sometimes without foot boards. Many were like four posters with the posts pollarded, the shape of an animal or board. Bolster rolls were universal.

Thomire and Odish were famous makers of the metal mounts so lavishly employed on Empire furniture and woodwork. The leading cabinet maker of the period was Jacob, who was patronized by Percier and Fontaine.

Heaviness of construction was accompanied by heaviness of color. The delicate pastels and dull golds of Louis XVI were supplanted by deep greens, reds, blues, browns, and purples. In vain does the light try to make an Empire room cheerful. It is sawlabeled up by the sombre fabrics.

The man most famous in the textile art of the Empire period was Jacquard. With his attachment for looms, he revolutionized weaving, making possible the reproduction of intricate patterns at a small fraction of the previous cost. He was signally honored and rewarded by Napoleon. The Empire style is not one of the great decorative styles, and is not a style that will ever again be largely reproduced for decorative purposes.—G. Le-land Hunter, in "Arts and Decoration."

DEPARTMENT OF ARCHITECTURE

Lewis F. Pilcher Designated New York State Architect with New Powers.

The McDonald-Frawley bill, which designates Lewis F. Pilcher, of Brooklyn, as State Architect of New York for a term of six years at a salary of \$10,000 a year, has received the Governor's signature.

The bill establishes a new State Department of Architecture. The plan had the support of the New York Chapter of the American Institute of Architects. Under its terms Prof. Pilcher may appoint three deputies, secretary and assistants. The bill re-appropriates \$110,441.56 for the conduct of the State Architect's office.

Lewis Frederick Pilcher was professor of architecture in the University of Pennsylvania for five years and for eleven years he held a similar position in Vassar College.

He was a member of the firm of Pilcher & Tachau, architects, of 109 Lexington avenue, Manhattan, is 43 years old, and is the son of Dr. Lewis S. Pilcher, of Brooklyn.

"There is a big proposition before the Department of Architecture," said Mr. Pilcher, "in the construction of public buildings. The work as now contemplated ought to save millions of dollars to the State. There are hospitals, reformatories, office buildings and parks to construct and it naturally follows

if this work is done under one system it can be done better and more economically.

"The entire plans can now be worked out from beginning to end before any appropriation at all is made for a building. Then it will be known just what that building is to cost. Under the old method one never knew what a building was going to cost. There is no more reason for this uncertainty in the construction of public buildings than there is in the construction of private buildings.

"Another important point is that the work of the contractor will be under the direct supervision of men who know just the sort of work that should be done and just the sort of material that should be used. In other words, the State will have men working for it instead of against it."

Uniformity of Style.

"To my mind one of the most essential things in State buildings is uniformity in the style of architecture and the construction of State buildings. That doesn't necessarily mean carrying out the same designs for all buildings, but a uniform, appropriate and impressive architectural plan which the buildings now lack, and which would be a guide to the members of the Legislature in voting appropriations. By following this procedure much that is now waste would be eliminated."

ELECTRIC FANS AS FLY SCREENS.

An enterprising business man in Mobile, Ala., has installed a ceiling fan over the entrance to his store to prevent flies from coming in. He has found that this form of fly screen is effective and does away with the bother of having a screen door for his patrons to open and slam shut. Heretofore flies would enter when the door was opened, and would collect in the display windows, making it necessary to clean the windows and the display objects frequently. Now he has no trouble.

GROTESQUES.

The grotesque is a frivolous mood of a serious art, and occupies a place of its own in architectural detail. Among the other fine arts, says "Arts and Decoration," only that of Drama allows a touch of humor, and even this humor is not so subtle as the grotesque, being more in the nature of open comedy. There is a drollery about architectural grotesque that cannot be compared with any degree of adequacy with any other humorous expression.

The grotesque goes only with certain types of architecture, having reached its height in the various styles and sub-styles of the Gothic. It is never seen in the dignified Renaissance, or in earlier precedents of classic antiquity, and if there were any way of tracing its origin, this would be highly interesting.

Before grotesques were introduced in mediaeval and Gothic architecture as brackets

and corbels, they were used in the form of gargoyles or water-spouts in the great cathedrals, such as those at Rouen and in Notre Dame of Paris. Russell Sturgis wrote that "As the red-skinned Christians of Mexico were once found to have stuffed the inner part of the high altar at Pueblo with their old idols, without the knowledge of their cruel civilizers, so did pagan Europeans slyly introduce their discredited gods into the haunts of the new deities, enjoying the fun of getting the better of the proud prelates who were ever ready to have them punished, or even burned alive for devil worship. They also felt as did the submissive Mexican Indians that perhaps, after all, there might be some power left in the old demoralized gods, some uncanny virtue in their images which it would be the part of wisdom to conciliate, in case the saints were deaf, or otherwise too much engrossed to listen to their prayers.

TO STANDARDIZE FEDERAL BUILDINGS.

Commission Reports Bill to Have New Bureau Absorb Supervising Architect's Office.

As a part of a comparative scheme for practical standardization of Federal buildings the country over, the Public Buildings Commission in a report presented to Congress has recommended the creation of a Federal bureau of public buildings to absorb the supervising architect's office of the Treasury Department. The proposed bureau would include a board of estimates and property.

Congress appointed the commission to investigate and report on the systematizing of the present haphazard method of providing public buildings. It was composed of Secretary McAdoo, Attorney-General McReynolds, Postmaster-General Burleson, Senators Swanson and Sutherland, Representatives Clark and Austin, and Sherman Allen, former Assistant Secretary of the Treasury. The report is designed as a basis of legislation to correct public building abuses.

The report stated that there is now approximately \$45,000,000 of public building work to be placed under construction by the Treasury Department; that in the past twelve years \$163,085,431 has been authorized for public building sites and construction and that during the past three years the average expenditures for construction of buildings, maintenance, operation and all other expenses has been \$20,000,000 a year. The commission recommends the organization of a Federal bureau of public buildings, headed by a commission at a salary of \$8000 a year, to be aided by technical experts of the supervising architect's office to be absorbed into the public building bureau, which should ultimately concentrate all the Government building activities, except public works of the army and navy, and certain other technical work. Salary of the archi-

tect to be raised to \$7500; chairman of the board of estimates and property, \$4500; eight or more supervising superintendents of construction in the field at \$3250, each in charge of a zone, with mechanical and other assistants.

No building to be authorized where post office receipts are less than \$10,000 a year. Prompt appropriation for construction of the proposed building for the Departments of State, Justice and Commerce, and housing of all Federal activities in the District of Columbia in Government-owned buildings, instead of partly in rented building, as at present.

Other recommendations include: Requirement that towns and cities, in which buildings are authorized, shall agree to provide sidewalks, street lighting and street sewers. A minority report was also submitted.

APRIL BUILDING \$602,775 LESS THAN LAST YEAR.

Construction work in Philadelphia during April reached an estimated total of \$3,086,840, representing a decrease from the corresponding period last year of \$602,775. For the first four months of this year the amount involved in building work was \$11,308,760, which is a falling off of \$1,458,760, compared with the same time in 1913.

The chief contribution to the current month's total came from dwelling operations. In this class of construction nearly \$2,000,000 was expended. The bulk of this amount went into two-story houses, of which 822 were started.

Additions and miscellaneous work furnished \$462,785 to the grand total, according to figures compiled by W. W. Gamble, of the Bureau of Building Inspection, while manufactories provided \$117,000 and one public school swelled the aggregate to the extent of \$190,000.

PENN MEN WIN PRIZES.

To its unbroken record of victories in national competitions, the Architectural Department of the University of Pennsylvania has added fresh triumphs through the winning by three of its students of the first, second and fourth prizes in the Pupin Prize contest fostered by the New York Beaux Arts Society.

This makes the second successive year in which a student of the Architectural Department has carried off first prize. The winner last year was W. Pope Barney. Thomas Bendell has won it this year. The other winners this year are Harry Steinfeld, who finished second, and Fred A. Fuller, who finished fourth in the competition in which architectural students from every part of the country participated.

The Pupin prize is offered by Professor M. I. Pupin, of Columbia University. It is for the best designs of an ornamental treatment of some scientific appliance. This year's contestants were required to submit

designs of an automobile supply station. The first prize is for \$50 and the second for \$25, aside from the honor of winning them.

TO ERECT STATUE OF BAER.

A movement has been started in Reading for the erection of a statue of George F. Baer, president of the Reading Railway, who was buried there on Wednesday last. The statue is to be placed in Penn Common, Reading's city park, which Mr. Baer, as president of Reading's Park Commission, did much to develop.

Mr. Baer resigned from the commission a few months ago, it having been superseded by the City Planning Commission, under the new commission government law affecting the State's third class cities. He declined an appointment to membership in the new commission.

AMERICAN HARDWARE.

American hardware has improved in design during the last few decades, like everything else concerning the home. But even with this improvement of our better building period, there is still room for more interest on the part of architects and clients in what is really a subject worth great attention. Few people can see why locks, bolt, hinges, sash-fasteners, etc., should amount to four or five per cent. of the total cost of the house; and when clients demur architects are only too ready to cut down on the hardware instead of trying to bring the reluctant up to an appreciation of its beauty and distinction.

Now hardware is, and always will be, in every house and in every room. All facts concerning its making and its history are invaluable as part of the ever-increasing interest in beautiful homes. When people know a subject, they become intelligently critical of it, and when the buying public has become intelligently critical of hardware it will be willing to pay for the best. As long as it remains ignorant there will be poor workmanship and bad design in our homes. And yet the remedy is so simple.

Historically, hardware may be divided into two periods, the iron and the brass and bronze; in other words, into Gothic and Renaissance. As to the former every country in Europe had wonderful workers in hardware during the Middle Ages, as the intricate and beautifully wrought locks and keys of all European museums show. But when the sterner and ruder life of the Middle Ages gave way to the gentler and more civilized epoch of the Renaissance, heavy iron bolts and locks were no longer needed against lawlessness. Door and window fastenings became more conspicuous for elegance than for strength, and this elegance and slenderness were worked out in brass and bronze which, making sounder castings, were better adapted for these smaller architectural fittings. But strangely enough only one of the nations that had ex-

celled in iron hardware took up the new style in the new metals. France alone created a school of hardware. Though all the other nations responded in turn to the Renaissance, they ceased their hardware with Gothic iron and left the making of all future articles in that line to the French; and because present-day needs are for Renaissance rather than Gothic our own manufacturers turn to France for their inspiration. There are a few well-known German firms making hardware, but it is mostly "Art Nouveau," which has but a restricted market—at any rate it is more popular in Europe than here. London architects, even when they want reproductions of old Elizabethan ironwork, have to order from Paris. Here in America we make excellent special hardware, but so few people are willing to pay for it that the cheap commercial output is far more in evidence. The well-to-do are inclined to judge the whole line by the specimens they are most familiar with, and in consequence they order from abroad without giving our own firms a chance to show what they can do.—"House Beautiful."

OLD FRENCH METAL-WORK.

In France, ever since Francis the First brought back his artists and artisans from Italy to spread the Renaissance, metalwork has kept pace with every decorative school that has developed and with every process of metal. Owing to the fine French sense of the esthetic, beautiful hardware has always made a peculiar appeal both to designers and to the public. There has been no time, even to the present day, when the greatest French architects and sculptors have not been proud to design hardware. Following their example our own architects now frequently insist on making their own designs, and it is pleasant to learn they meet with hearty co-operation from the manufacturers. That early artists occupied themselves with these details is not surprising—beauty and good craftsmanship extended into every field then, and it was no loss of dignity for the architect Pierre Lescot, who started the Palace of the Louvre, to design its candelabras, its locks and keys and cremones and espagnolettes (fastenings for casement windows); or for Boulle, court furniture-maker to Louis XIV, to design knobs and drawer-pulls for the sumptuous marquetry he invented and which has ever since been known by his name. Jean Goujon's locks and hinges at Azay-le-Rideau, made as early as Henry II's day, delight even the most hurried tourist. Goujon was about the first of a long list of sculptors who helped create and develop the French school of hardware. Thus, every visible bit of metal in a palace was a work of art. But even aside from these masters the humble locksmith was a man of high standing in any community. The making of a beautiful lock and key was the great ordeal imposed as a test for holding office in the guild, and the works submitted are shown today in

museums as masterpieces, as beautiful in execution as they are ingenious in mechanism.

On keys alone a wealth of work was lavished. After early Gothic days it shrank to most delicate proportions and became a real ornament to the chatelaine, who wore a bunch of them at her side. The locksmith Mathurin Jousse found keys such an entrancing subject that he published a thick volume on them in 1627. In it he claims for his trade the rank of an art, "since no other can compare with it for beauty, utility and antiquity; for as man must have early attempted a device for shutting out wild beasts, some rudimentary form of lock and key must be as old as the universe itself." He studied all the old Egyptian, Greek and Roman keys he could collect and found them "mostly the work of chattel slaves—compulsory, therefore deficient in art"; he traced how their tops of crude brute or human figure became later the circular, trefoil and quatrefoil tops with conventional designs and accompanied by slender fluted or chased stems. As he enumerates "the qualities for turning rebellious iron into a beautiful key—the self-confidence that annihilates hesitation, the accuracy that directs each stroke so that it will result in a graceful shape," one understands his enthusiasm. His book is full of drawings and many of the designs are still reproduced in brass and steel by Paris firms today.—"House Beautiful."

THE ARTISTIC TEMPERAMENT.

Gautier said something about all artists being by temperament either flamboyant or drab, says "The American Architect." Had he been speaking of architects, and judged them by their temperaments as evidenced in the usual exterior, what might he not have said?

It is true that color is employed in architecture to a limited extent, but the gray screen is seldom omitted and we have gray-browns, gray-reds, gray-greens and, above all, gray.

In color-blindness we are told that "the complementary to the defective color appears as gray." It is comforting to the charitable to realize that a color-blind individual may know most of our cities—New York, Chicago, Philadelphia, or Boston, without missing any of the architectural interest due to the use of color. There are, of course, exceptions; but are the nerves of the retina sensitive to red, green and violet, pleasantly excited when "doing" a modern city?

It is possible, when in New York, that one may have tired of the monotony of gray-white, gray-browns, gray sidewalks and streets, and, by Madison Square, perhaps one's eye caught a glimpse of the pediment of the "Parkhurst Church."

Have not many people permitted their eyes to be refreshed from the eternal drab of things?

WRITTEN IN AN APARTMENT HOUSE.

(By Thomas Nunan in the San Francisco Examiner)

In long and free and ringing lines
The muse would take delight;
But my apartment is so small,
There's little room to write.

Should longer verse I now compose,
In wild, ecstatic bliss,
I'd have to run it up the wall, as per example ^{this.}

Apartments of the modern style
Are made so very small,
The furniture, the beds and things, all
slip
inside
the
wall

It's awkward, being crowded so,
And still my woes to crown,
When I am writing up a thing I have to
write it down.

My garden is a window box,
And further I declare
The flowers that I grow therein
Are something very rare.

It's wonderful how many things
Apartment houses hold;
Chairs, tables, desks and kitchen stoves are
built so they
will fold.

A fine piano seems to grace
This living room—and yet,
One-half is but a place for clothes,
The rest a kitchenette.

Still other things I'd like to tell,
Of ceiling, wall and floor;
But we must dine upon my desk,
So I can write no more.

The business man who grudges a commission to an advertising agent who thinks "he can do it himself" is usually about as intelligent as he would be if he grudged the commission of the architect and decided to build his store for himself.

He would save the commission of the architect, but ruin the store.

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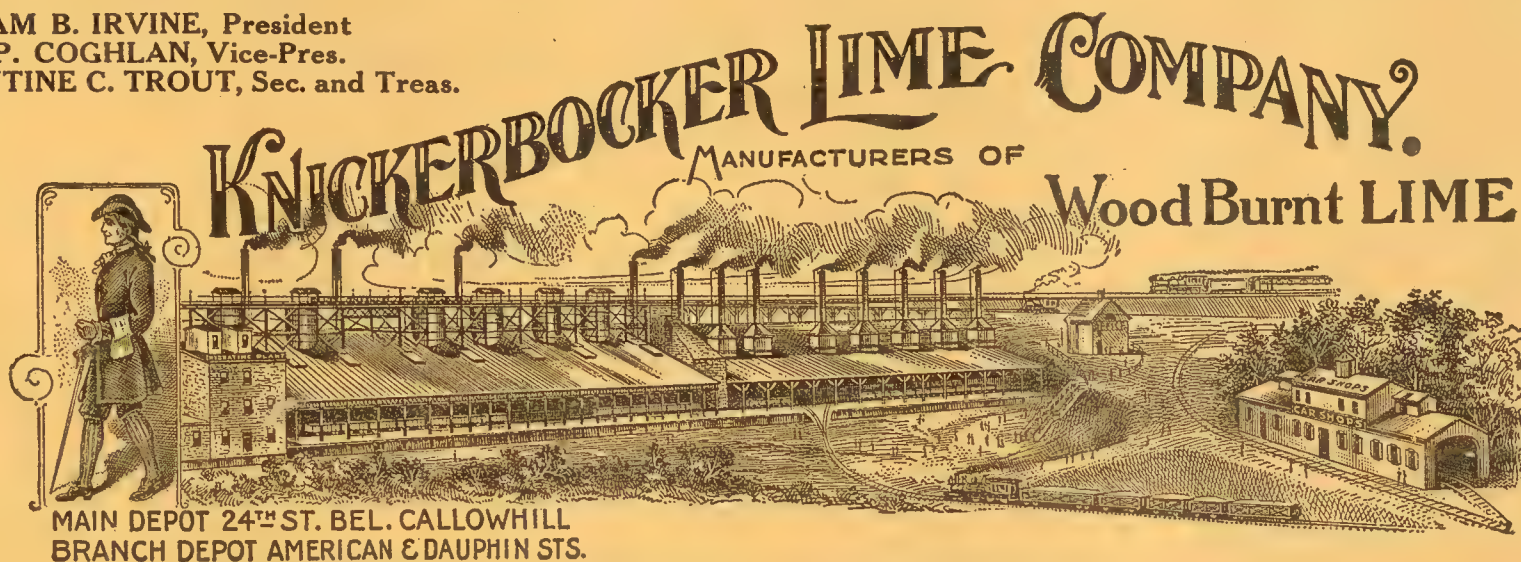
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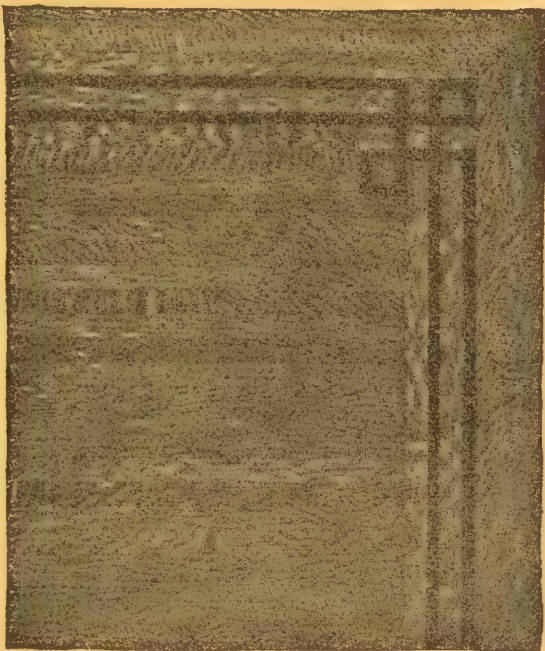
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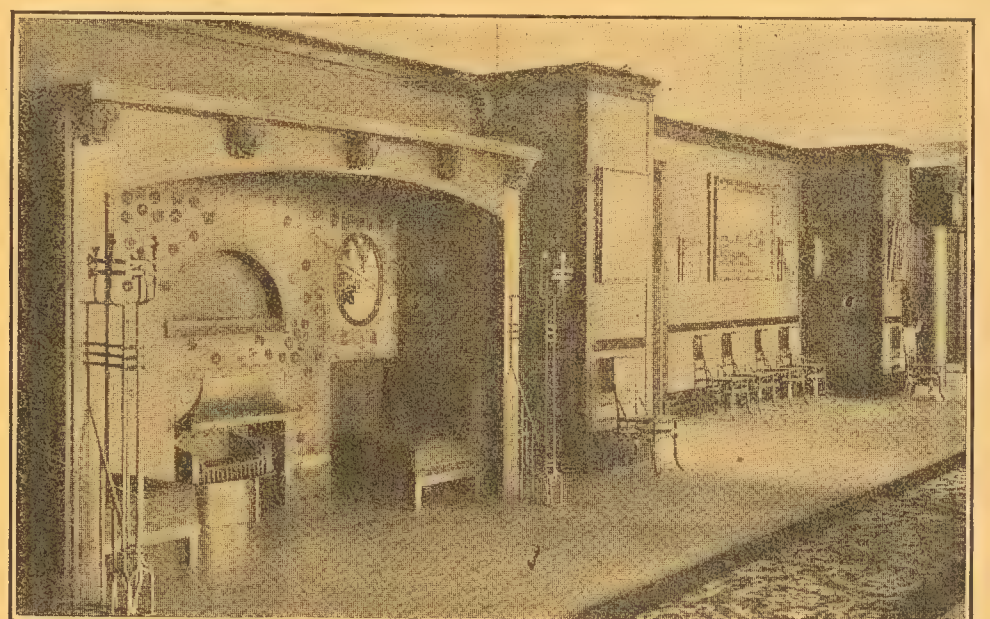
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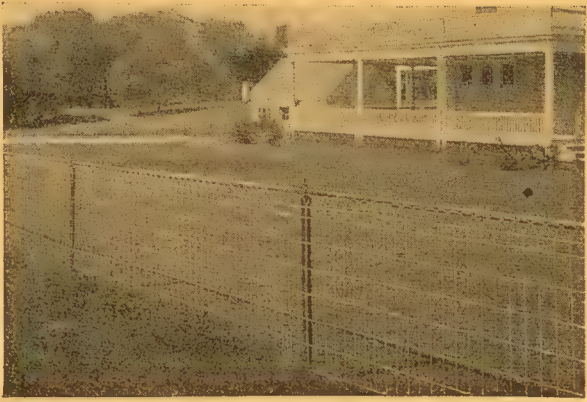
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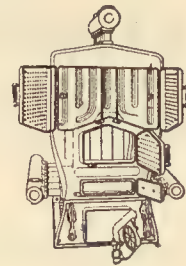
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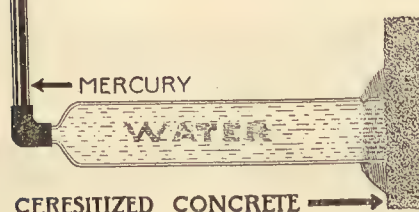
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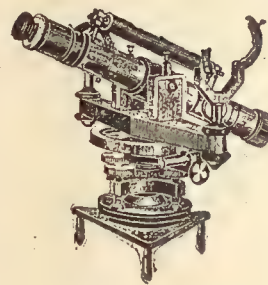
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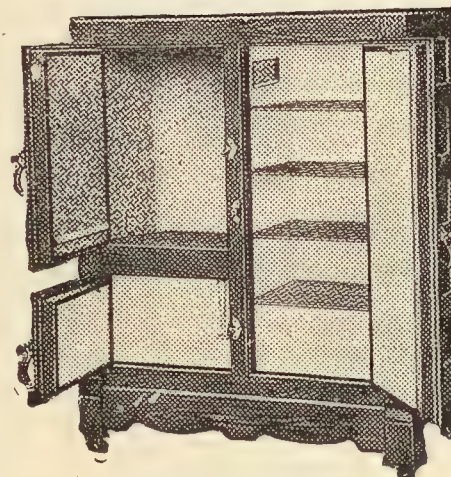
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Vol. XXIX., No. 19.

PHILADELPHIA, WEDNESDAY MAY 13, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church Building, Twenty-second and Moore streets. Architects, Milligan & Pierson, 520 Walnut street. Owners, Twenty-second Street M. E. Church, care of Dr. J. E. Gallagher, on premises. Brick and stone, 2 stories and basement, 42x125 feet, slate and slag roof (heat and light reserved). Architects have received bids.

Manufacturing Building (alt. and add.), Mifflin street wharf. Architect, C. W. Denny, Hale Building. Owners, T. B. Rice & Sons Company, on premises. Brick, 1 and 2 stories, 67x90 feet and 66x79 feet, slag roof, rolling steel shutters, metal lath, Kinnear shutters (heat and light reserved). Architect taking bids, due May 13th. Stacy Reeves & Sons, 2011 Market street; Turner Concrete Steel Company, 1713 Sansom street; William R. Dougherty, 1610 Sansom street; Harrison C. Rea Company 1027 Wood street; Charles Gil-Harrison Building, are figuring.

Factory, Front and Venango streets. Architect, E. C. Austermuhl, care of owners. Owners, Dörner-Tretbar Company, 1210 Kaighn's avenue, Camden, N. J. Brick, 2 stories, 41x101 feet, slag roof, steam heating, electric lighting. Owners have received bids.

School and Synagogue, Church lane and Chew street, Germantown. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Jewish Foster Home, on premises. Brick and terra cotta, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Architects have received bids.

Stores (4), 611-13-15-17 Passyunk avenue. Architect, M. Haupt, Drexel Building. Owner, T. Sternberg, 309 Pine street. Brick, 3 stories, 15x63 feet, slag roof, steam heating, electric lighting. Owner taking bids. Lam Building Company, 1001 Wood street, is figuring.

Residence, Oak Lane, Philadelphia. Architect, Valentine B. Lee, 1003 Spruce street. Owner, John A. Kilpatrick, Bourse Building. Stone, 2½ stories, 34x45 feet, slate roof, hot water heating, electric lighting, metal lath. Architect taking revised bids.

Stores (3), 4400 Frankford avenue. Architects, Watson & Huckel, 1211 Walnut street. Owner, Joseph Ball, 4445 Frankford avenue.

Brick, 1 story, 50x70 feet, slag roof, steam heating, electric lighting, hardwood floors. Plans completed. Owners will take bids.

Store (alt. and add.), 5929 Girard avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, J. P. MacDonald, on premises. Brick, 2 stories, 22x63 feet, slag roof, steam heating, electric lighting, metal lath. Architect taking bids, due May 13th. W. E. Scull, 5705 Master street; J. M. Holm, 5556 Arch street; Davis Pennock, 901 South Fifty-fourth street; J. Murphy, 4034 Powelton avenue; D. H. Sharp, Inc., Heed Building; C. Hansen, East Lansdowne, Pa., are figuring.

Service Building, Twenty-third and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenberg, Morris Building. Brick and terra cotta, 2 stories, 98x240 feet, slag roof, steam heating, electric lighting, enamel brick, metal lath, dampproofing, metal frames and sash. Owners received bids May 11th.

Dyeing Plant, Delaware avenue and Milnor street. Architect, Carl P. Berger, Penn Square Building. Owners, Hellwig Silk Dyeing Company, Ninth and Buttonwood streets. Brick and concrete, 1 and 2 stories, 100x200 feet and 90x90 feet, slag roof, electric lighting. Architect taking bids, due May 16th. Stacy Reeves & Sons, 2011 Market street; Cramp & Co., Denckla Building; Burd P. Evans Company, Thirteenth and Wallace streets; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; George Kessler Cont. Co., Drexel Building; Ketcham & McQuade, 1029 Brown street; A. Raymond Raff, 1635 Thompson street; W. W. Anstine & Co., 1218 Filbert street, are figuring.

Parish House, Sixty-first and Cedar avenue. Architect, G. T. Pearson, 427 Walnut street. Owners, St. George's P. E. Church, on premises. Stone, 2 stories, 48x50 feet, slate and slag roof, steam heating, electric lighting, waterproofing. Architect received bids May 12th.

Building (alt. and add.), 824 Race street. Architect, C. E. Rahn, 410 Walnut street. Owner, B. Goldberg, 826 Race street. Brick, 4 stories, slag roof, steam heating, electric lighting, composition floors, metal sash and

frames. Owner taking bids. Stacy Reeves & Sons, 2011 Market street, are figuring.

Store and Apartments (alt. and add.), Fifty-second and Race streets. Architect, private plans. Owners, J. J. Curran & Sons, on premises. Brick, 3 stories, 16x81 feet, slag roof, electric lighting. Owners have received bids.

Residence, Cheltenham avenue and Second street pike, Philadelphia. Architect, H. A. Schweizer, 1312 North Broad street. Owner, R. A. Stier, 1600 North Second street. Brick, 3 stories, 20x71 feet, slag roof, hot water heating, electric lighting. Architect taking bids, due May 13th. Stacy Reeves & Sons, 2011 Market street; H. H. Wehmeyer, 1004 West Lehigh avenue; J. Gaertner, 2214 North Third street, are figuring.

Manufacturing Building, 4325 Paul street, Frankford, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building. Owners, Keystone Emery Mills, on premises. Brick, 2 stories, 25x97 feet, slag roof (heating and lighting reserved), metal sash and frames, dampproofing. Architect taking bids, due May 13th. The following are figuring: F. J. Boas, 201 North Broad street; James G. Doak & Co., Crozer Building; Loos & Dothard, 1438 South Penn Square; Ketcham & McQuade, 1029 Brown street; F. W. Van Loon, Denckla Building; H. E. Grau Company, 1709 Sansom street.

Operation of Residences, Front and Tabor road. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Edwin Stott, 5430 North Water street. Brick, 2 stories, 16x44 feet, slag roof, hot water heating. Owner taking sub-bids.

Club House (alt. and add.), Old York road, Philadelphia. Architect, Oliver R. Parry, 1723 Chestnut street. Owners, Old York Road Country Club, on premises. Frame, 2 stories, slate roof, steam heating, electric lighting, hardwood floors. Revised plans in progress.

Rectory, Twenty-eighth and Diamond streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Most Precious Blood R. C. Church, care of J. K. J. Kirin, on premises. Brick, 3 stories, 42x50 feet, slate roof,

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steam heating, electric lighting. Architect taking bids, due May 18th. W. J. McShane, 417 South Thirteenth street, is the only bidder and is taking sub-bids.

Garage (alt. and add.), Twentieth and Brandywine streets. Architect, P. M. Colen, 3133 Norris street. Owner, M. Boyle, 1528 Market street. Brick and concrete, 3 stories, 70x109 feet, slag roof, hot water heating, electric lighting, asphalt floors, metal lath, metal sash and frames, elevators. Architect taking bids due May 16th. H. E. Baton, Twelfth and Sansom streets, and William R. Dougherty, 1610 Sansom street, are figuring.**Club House,** Fairmount Park, Phila. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, Fairmount Park Yacht Club, care of Architect. Stone and frame, 2 stories, 40x50 feet, shingle roof, electric lighting, hot water heating, canvas roof. Plans in progress.**Shelter Sheds and Tunnel,** Logan, Phila. Architect, W. Hunter, Twelfth and Market streets. Owner, Philadelphia & Reading Railway Co., Reading Terminal. Concrete and steel, tile and slate roof, electric lighting, water proofing. Owner taking bids due May 18th. F. W. Van Loon, Denckla Building; H. E. Baton, Twelfth and Sansom streets; Irwin & Leighton, 126 North Twelfth street; F. A. Havens Co., 845 North Nineteenth street; F. L. Hoover & Sons, 1023 Cherry street; W. W. Lindsay, Harrison Building; Brown-King Construction Co., Harrison Building, are figuring.**Office Building** Seventeenth and Arch streets. \$1,250,000. Architect, John T. Windrim, Twelfth and Chestnut streets. Owner, Bell Telephone So., Thirteenth and Arch streets. Brick, stone and terra cotta, fireproof, 15 stories, 86x157 feet, tile roof (steam heat and electric light, reserved), composition floors (elevators, reserved), enameled brick, water proofing, metal partitions, steel sash and frames, metal lath. Architect taking bids due May 19th. The following are figuring: Charles McCaul Co., 1713 Sansom street; James G. Doak & Co., Crozer Building; Jacob Myers & Sons Co., Witherspoon Building; Cramp & Co., Denckla Building; Doyle & Co., 1519 Sansom street; George A. Fuller Co., Morris Building.**Residence (triple),** Chestnut Hill, Phila. Architect, George S. Idell, 34 South Sixteenth street. Owner, Jacob Dissston, Tacony, Phila.

Stone, 2½ stories, 40x140 feet, slate roof, hot water heating, electric lighting, hardwood floors. Revised plans in progress.

Convent, Twenty-ninth and Dickinson street. Architects, Ed. F. Durang & Sons, Twelfth and Chestnut streets. Owners, St. Gabriel's R. C. Church, on premises. Brick and stone, 2 stories, slate roof, hot water heating, electric lighting. Plans completed. Architects ready for bids.**Power House,** Fortieth and Irving streets. Architect, J. T. Windrim, Commonwealth Building. Owner, Thomas W. Evans Museum, Fortieth and Spruce streets. Brick, 1 story, 43x75 feet, slag roof, metal sash and frames. Architect taking bids, due May 20th. James G. Doak & Co., Crozer Building; J. Myers Sons Company, Witherspoon Building; Pomeroy Construction Company, 1609 Ranstead street; William R. Dougherty, 1610 Sansom street; Charles McCaul Company, 1713 Sansom street; Doyle & Co., 1519 Sansom street, are figuring.**Club House, (add.),** 1312 North Broad street. Architect, Herman Schweizer, 1314 North Broad street. Owners, Loyal Order of Moose, on premises. Brick and steel, fireproof, 3 stories, 70x110 feet, slag roof, steam heating, electric lighting. New plans in progress.**Garage (alt. and add.),** Twentieth and Brandywine streets. Architect, P. M. Colen, 3133 Norris street. Owner, M. Boyle, 1528 Market street. Brick and concrete, 3 stories, 70x109 feet, slag roof, hot water heating, electric lighting, asphalt floors, metal lath, metal sash and frames, elevators. Architect taking bids, due May 16th. A. Raymond Raff, 1635 Thompson street; Pomeroy Construction Company, 1609 Ranstead street; George & Borst, 277 South Eleventh street; F. A. Havens Co., 845 North Nineteenth street; James G. Doak & Co., Crozer Building, are figuring, in addition to those previously reported.**Warehouse,** 761 South Fourth street. Architect, B. J. Medoff & Sons, 524 Walnut street. Owner, Louis Myers, on premises. Brick, 3 stories, 20x50 feet, slag roof, steam heating, electric lighting. Plans in progress.**Laboratory Building,** Twenty-fourth and Norris streets. Architects, Koelle Speth & Co., Twenty-sixth and Oxford streets. Owners, Standard Dental Manufacturing Company, Twenty-fifth and Diamond streets. Brick, 2 stories, 20x24 feet, slag roof, steam heating, electric lighting. Plans in progress.**UNITAS
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Laundry Building, Watts and Fitzwater streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Woman's Homeopathic Hospital, on premises. Brick and terra cotta, 2 stories, 30x40 feet, slag roof (heating and lighting reserved), dampproofing. Contract awarded to A. Whitehead, 1624 Latimer street.

Parochial School, Holesmburg, Pa. Architect, H. A. Dagit, 411 Walnut street. Owners, St. Dominic's R. C. Church, care of Rev. L. J. Wall, on premises. Stone, 2½ stories, 44x86 feet, slate roof, hot water heating, electric lighting, metal ceilings, fireproofing (steam heating reserved). Contract awarded to D. W. O'Dea, 5219 North Fifth street, Philadelphia.

Home, Mount Airy, Philadelphia. Architects, Stewardson & Page, 316 Walnut street. Owners, Pennsylvania Institution for the Deaf and Dumb, Mount Airy, Pa. Stone, 1 story, 76x128 feet, slate roof, metal lath, metal frames and sash (heating and lighting reserved). Contract awarded to William R. Dougherty, 1618 Sansom street.

Service Building, 2532-34 North Broad street, \$25,000. Architect, private plans. Owners, Kahn & Greenberg, Morris Building. Lessee, the Touraine Company, Broad and Huntingdon streets. Brick, concrete and terra cotta, 3 stories, 50x155 feet, slag roof, steam heating, electric lighting. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Power House, North Philadelphia Station, Philadelphia, \$7,000. Architect, W. H. Cookman, Board Street Station. Owners, Pennsylvania Railroad Company, Broad Street Station. Brick, 1 story and basement, 37x56 feet, slag roof, metal lath, steel frames and sash. Contract awarded to Brann & Stuart, Commercial Trust Building.

Store (alt. and add.), 139-141 Market street. Architects, Guy King Company, 1527 Walnut street. Owners, Owen & Bernard Maguire, on premises. Consists of interior alteration and addition, metal lath (heat and light reserved). Contract awarded to Frederick Burgard, Drexel Building.

Residences (2) and Garage, Ridge avenue and Huntingdon street. Architect, private plans. Owner, Mrs. K. Huegle, 2532 West Lehigh avenue. Brick, 1, 2 and 3 stories, 16x61 feet, slag roof, hot water heating, electric lighting. Contract awarded to J. Gaertner, 2214 North Third street.

Manufacturing Building, Twenty-fourth and

Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, J. J. Greenberg, Morris Building. Lessee, National Enameling and Stamping Company, 222 North Twenty-third street. Brick, steel and concrete, 6 stories, 60x200 feet, slag roof, steam heating, electric lighting, metal sash and frames, waterproofing, elevators. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, who is taking sub-bids.

Apartment House, Broad and Ellsworth streets. Architect, George I. Lovatt, 418 Walnut street. Owner, Mrs. M. L. Watson, 4961 Walton avenue. Brick, 3 stories, 60x30 feet, tin roof, steam heating, electric lighting. Contract awarded to M. J. Lazaroff, 1418 South Sixth street.

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PENNSYLVANIA Construction News

Residences (6), Noble, Pa. Architect, Frank Seeburger, Pennsylvania Building, Phila. Owners, name withheld. Stone, frame and plaster, 2½ stories, slate, tile and shingle roofs, hardwood floors, tile work (hot water heating and electric work, separate bids by architect). Architect received bids May 12th.

Bank Building, Boyertown, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Phila. Owner, Boyertown National Bank, E. K. Scultz, President. Limestone, 1 story, 40x70 feet, slag roof, steam heating, electric lighting, concrete fireproof floors, metal lath, damp proofing, mahogany banking fixtures, tile and terrazzo work. Architect taking bids due May 19th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; H. E. Baton, Twelfth and Sansom streets; Charles McCaul Co., 1713 Sansom street, all of Philadelphia; F. H. Keiser & Co., Pottstown, Pa.; Copeland & Rapp, Pottstown, Pa.; Ochs Construction Co., Allentown, Pa.; Fink & Seidle, Colonial Trust Building, Reading, Pa.

Residence, Villa Nova, Pa. Architects, Duhring, Okie & Zeigler, Bailey Building, Phila. Owner, William T. Harris, Villa Nova, Pa. Stone, 2½ stories, 26x40 feet, shingle roof, hot air heating, electric lighting, hardwood floors. Plans in progress.

Church and Sunday School, Wilkes-Barre, Pa. \$35,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, First Presbyterian Church, Douglass Mission, Wilkes-Barre, Pa. Brick and terra cotta, 2 stories, 45x10 8feet, slate and slag roof, steam heating, electric lighting, leaded glass. Plans in progress.

Hotel (alt.), Wilkes-Barre, Pa. \$10,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Hotel Sterling, C. J. Capwell, Wilkes-Barre, Pa. Consists of new banquet hall, electric lighting, mural decorations, draperies, kitchen equipment, mirrors, parquet floors. Plans in progress.

Factory Building, Wilkes-Barre, Pa. \$300,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Lehigh & Wilkes-Barre Coal Co., Wilkes-Barre, Pa. Brick and concrete, 1 and 2 stories, consists of machine shop, blacksmith shop, boiler and structural shop, car shop, wheelwright shop, carpenter shop, oil house, sheds, etc., asbestos roofs, electric lighting, steam heating, steel sash, oil tanks and pumps, electric cranes and equipment. Plans in progress.

Hospital, Wilkes-Barre, Pa. \$150,000. Architects, Sturdevant & Poggi, Coal Exchange

Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Private Ward Hospital, Wilkes-Barre, Pa. Brick, steel and terra cotta, fireproof, 4 stories, promenade tile roof, electric lighting, three elevators, steam heating, tile and marble work. Plans in progress.

Bungalow, Mt. Pocono, Pa. Architects, Morris & Erskine, Crozer Building, Phila. Owners, name withheld. Frame, 1½ stories, 42x30 feet, shingle roof. Plans in progress.

Garage, Cynwyd, Pa. Architect, W. L. Blithe, 608 Chestnut street, Phila. Owner, John E. Eberbach, Cynwyd, Pa. Stone, 2 stories, 32x30 feet, slate roof, hot-water heating, electric lighting, gasoline storage. Architect received bids May 11th.

Residence, Cynwyd, Pa. Architects, Druckenmiller & Williams, Land Title Building, Phila. Owner, W. A. Jarden, 324 South Fifty-second street. Stone and plaster, 2½ stories, 37x42 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architects have received revised bids.

Residence, Cynwyd, Pa. Architect, private plans. Owner, C. Harry Seasholtz, South Penn Square Building, Phila. Stone and plaster, 2½ stories, 30x50 feet, slate roof, hot water heating, electric lighting, hardwood floors. Builder, E. J. Hedden, South Penn Square Building, Phila., is taking sub-bids.

School (add.), Norristown, Pa. \$50,000. Architect, Oliver Randolph Parry, 1723 Chestnut street, Philadelphia. Owner, Board of Education, Norristown, Pa. Brick, fireproof, 2 stories, 30x76 feet, slate roof, steam heating. Owners taking revised bids. Abel Bottoms & Sons Co., 41 South Fifteenth street; F. Roe Searing, Perry Building; H. L. Brown, 1714 Sansom street, are figuring.

Convent (alt. and add.), Chester, Pa. Architect, private plans. Owner, St. Michael's R. C. Church, care of Rev. J. F. Timmons, Chester, Pa. Stone, 3 stories, 32x60 feet, slate roof. Owners have received bids.

Club House, West Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Owner, New Century Club, West Chester, Pa. Hollow tile and stucco, 2½ stories, 50x150 feet, slate roof, hot water heating, hardwood floors (electric lighting, reserved). Architect received revised bids May 11th.

Garage, Cynwyd, Pa. Architects, Druckenmiller, Williams, Land Title Building, Phila. Owner, W. A. Jarden, 324 South Fifty-second street, Phila. Frame, 1 story, 21x22 feet, shingle roof, electric lighting. Architect taking bids due May 14th. J. E. Kearney, 327 North Sixty-third street; J. Paul Emrey,

North Wynnefield, Pa.; E. J. Hedden, Penn Square Building are figuring.

Y. W. C. A., Chester, Pa. \$45,000. Architect, Benjamin Rush Stevens, 1737 Filbert street, Phila. Y. W. C. A., care of Mrs. A. R. Conwell, Upland, Pa. Brick and stone, 3 stories. Plans in progress.

Residence, Haverford, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Phila. Owner, William Bradway, Haverford, Pa. Stone and frame, 2½ stories, tin & shingle roof, oak floors, electric lighting (heating, reserved). Architects received bids May 11th.

School, Plymouth Meeting, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, Plymouth Meeting, Pa. Brick, 2 stories, slag roof, metal ceilings, maple floors, slate black boards. Plans in progress.

School, Connaughtown, Pa. Architect, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, Plymouth Meeting, Pa. Brick, 1 story, slag roof, metal ceilings, maple floors, slate black boards. Plans in progress.

Residence, Ardmore, Pa. Architects, Thomas & Churchman, 130 South Fifteenth street, Phila. Owner, Charles Carver, Jr., Stephen Girard Building, Phila. Stone and plaster, 2½ stories, 43x40 feet, slate roof (heating reserved), electric lighting. Architect taking bids due May 16th. F. W. Allison Co., 1710 Rittenhouse street; Graham Campion Co., Heed Building; Metzger & Fisher, Denckla Building, all of Phila.; A. James, Bala, Pa.; Gray Bros., Rosemont, Pa.; M. W. Young, Overbrook, Pa.; F. H. Mahan, Ardmore, Pa., are figuring.

School, York, Pa. \$40,000. Architect, Robert A. Stair, Jr., Guardian Trust Building, York, Pa. Owner, Board of Education, York, Pa. Brick, stone and terra cotta, 2 stories, 80x100 feet. Plans in progress.

Residence, Easton, Pa. \$9,000. Architect, William Michler, Easton, Pa. Owner, W. B. Bryan, Easton, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hot air heating, electric lighting, hardwood floors. Architect has received bids.

Church, Windgap, Pa. \$5,000. Architect, William Michler, Easton, Pa. Owner, Italian Episcopal Mission, Diocese of Bethlehem, Rev. Rocco, Easton, Pa. Stone, 1 story, 25x50 feet, slate roof, hot air heating, electric lighting. Architect and owner taking bids.

Hall Building, Easton, Pa. \$30,000. Architect, F. H. Wenzelberger, Easton, Pa. Owner, Odd Fellows, Easton, Pa. Brick and terra cotta, 3 stories, 54x185 feet, slag roof, steam heating, electric lighting, metal lath. Architect taking bids (revised) due May 15th. The following are figuring: F. Roe Searing, Perry Building, Phila.; H. J. Wenzelberger, Phillipsburg, N. J.; Groman Bros., Bethlehem, Pa.; Butz & Clader, Allentown, Pa.; John Stiles, Bangor, Pa.; W. A. Stein, Allentown, Pa., and W. H. Snyder, A. A. Bechtel, F. J. Lerch & Co., A. P. Smith, all of Easton, Pa.

School Building, Cynwyd, Pa., \$60,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Lower Merion Township School Board, care of W. J. Byrnes, Ardmore, Pa. Brick, stone and steel, fireproof, 2 stories, 46x130 feet, slag roof, metal lath (heating and electric work separate bids). Owners taking bids due May 15th. The following are figuring: Pomerooy Construction Company, 1609 Ransstead

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Residence (alts.), Bethlehem, Pa., \$50,000. Architects (associated), A. W. Leh, South Bethlehem, Pa., and Neff & Thames, Heed Building, Philadelphia. Owner, Charles M. Schwab, 111 Broadway, New York City. Brick and brownstone trimmings, 3 stories. Consists of entire exterior, red tile roof. Plans in progress. Architects will take bids in one week.

Recreation House, Newtown, Pa. Architect, Oliver R. Parry, 1727 Chestnut street, Philadelphia. Owner, J. J. Tierney, Newtown, Pa. Frame, 1 story. Consists of swimming pool, locker rooms and dressing rooms. Plans in progress.

Residences (2), Lancaster, Pa., \$6,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, August Kruschinski, Lancaster, Pa. Brick, 2½ stories, 32x54 feet, slate and tin roofs, hot air heating, gas lighting. Architect taking bids. Charles Binkle, Lancaster, Pa., and Harry Ulrich, Strausburg, Pa., are figuring.

Residence, Phoenixville, Pa., \$2,500. Architect, J. V. Poley, Royersford, Pa. Owner, Fred C. Salathe, Phoenixville, Pa. Brick, 2 stories, 18x42 feet, tin roof, hot air heating, gas lighting. Owner taking bids.

Twin Residence, Phoenixville, Pa., \$7,500. Architect, J. V. Poley, Royersford, Pa. Owner, Mrs. Chester M. Spare, Phoenixville, Pa. Brick and stucco, 2½ stories, 54x36 feet, red asbestos shingle roof, steam heating, gas and electric lighting. Owner taking bids.

Residence, Lancaster, Pa., \$10,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner's name withheld. Hollow tile and stucco, 2½ stories, 44x40 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors, tile baths and fireplaces. Plans in progress.

Residence and Store (alt. and add.), Lancaster, Pa., \$6,000. Architect, private plans. Owners, Mentzer Grocery Company, 227 North Prince street, Lancaster, Pa. Brick, 1 story,

30x20 feet, tin roof, gas and electric lighting. Work about to be started.

Residence, Philadelphia Pike, Rouk, Pa., \$80,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Mrs. Joseph S. Esbenschade, Lancaster, Pa. Brick, 2½ stories, 38x30 feet; wing, 20x22 feet, Peach Bottom slate roof, hot air heating, electric lighting. Architect will sub-let all contracts.

Dancing Pavilion, Lancaster, Pa., \$7,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Conestoga Park, Howard E. Doan, manager, Lancaster, Pa. Frame, 1 story, 80x120 feet, composition roof, electric lighting, maple floors. Plans in progress.

Coliseum (alt. and add.), People's Park, Lancaster, Pa. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owners, Lancaster Ad. Club, H. G. Hall, secretary, 13 South Duke street, Lancaster, Pa. Frame 1 story, 337x97 feet, electric lighting, hardwood floors, compo boards. Will contain skating rink and dancing hall. Owners taking bids.

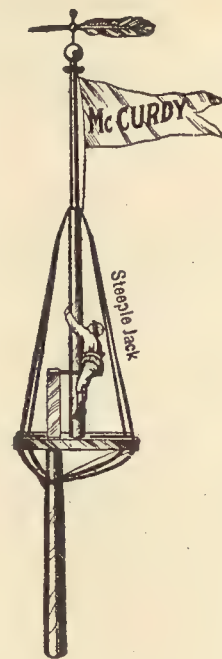
Residence, Lancaster, Pa., \$6,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, H. A. Bevis, Hamilton Apartments, Lancaster, Pa. Brick, 3 stories, 20x60 feet, slate and tin roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

FIREPROOF STYLE IS NOT EXPENSIVE.

Fireproof buildings can be erected at a cost of not more than 15 per cent. over non-fireproof construction.

At the present cost of building material, fireproof construction can be erected at a cost of not to exceed 10 or 15 per cent. more than those non-fireproof, and when we consider that fireproof buildings deteriorate one-ninth of one per cent. a year as compared with the four per cent. of ordinary buildings; that they rent better and that money can be borrowed on them on better terms; that they are vermin-proof, cooler in summer and warmer in winter, it would certainly seem a part of wisdom and self-interest to adopt a better method in every case when the building is to be of a permanent character.

If one-half of the money spent in American cities for fire losses was spent for better building construction, the annual loss by fire would soon begin to decrease. Improvements along the line of better construction can only come gradually. It can and should be hastened in thickly settled communities by stringent building laws. City officials should be awakened to their responsibilities and the individual shown that his own pecuniary interest lies in lessening the fire waste. Old buildings cannot be torn down at once



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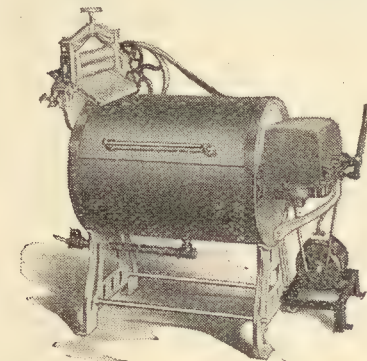
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PENNSYLVANIA

Contracts Awarded

School Building, Rosemont, Pa. Architects, Boyd, Coneys & Abel, Fifteenth and Walnut streets, Phila. Owner, School Board of Radnor Township, Wayne, Pa. Brick, 1 story, 160x40 feet, 2 wings, 40x40 feet each, slate roof, hot air heating, electric lighting. Contract awarded to W. J. Elliott, Coatesville, Pa.

Bank Building, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Citizen's National Bank, Pottstown, Pa. Granite, brick and steel, 1 story, 42x60 feet, slate roof, steam heating, electric lighting, tile and marble work, mahogany banking fixtures. Contract awarded to Frank H. Keiser, Pottstown, Pa.

Parish House, Lansford, Pa. \$10,000. Architects, Henon & Boyle, 10 South Eighteenth street, Phila. Owner, St. Ann's R. C. Church, on premises. Brick, 3 stories, 35x20 feet, slate roof, electric lighting, steam heating. Contract awarded to A. Breslin, Summit Hill, Pa.

Laboratory Building, Freeland, Pa. \$9,000. Architects, Stewardson & Page, 320 Walnut street, Phila. Owners, Miners' & Mechanics' Institute, Freeland, Pa. Stone, 2 stories, 40x30 feet, slate roof, steam heating, electric lighting. Contract awarded to R. A. Lentz, Freeland, Pa.

Church and Rectory, Cornwall, Pa. Architect, George I. Lovatt, 416 Walnut street, Phila. Owner, Sacred Heart R. C. Church, care of Rev. E. C. Flynn, on premises. Brick and frame, 1 and 2½ stories, 30x50 feet, slate roof, steam heating, electric lighting. Shenk Bros., Lebanon, Pa., have been awarded contract.

Residence, Jenkintown, Pa. Architect, L. V. Boyd, Harrison Building Phila. Owner, Louis R. Dutton, Jenkintown, Pa. Hollow tile and plaster, 2½ stories, 36x55 feet, slate roof, electric lighting. Contract awarded to Specht & Sperry, Heed Building, Phila.

Residence (alt. and add.), Conshohocken, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Phila. Owner, William S. Perot, Conshohocken, Pa. Stone, 2½ stories, tin roof, electric lighting. Contract awarded to E. J. Hedden, Penn Square Building, Phila.

School (add.), West Easton, Pa. \$10,000. Architect, F. H. Wenzelberger, Easton, Pa. Owner, Borough of West Easton, Pa. Brick and frame, 2 stories, 40x45 feet, slate roof, steam heating, electric lighting. Contract awarded to H. J. Wenzelberger, Phillipsburg, N. J.

Residence, Chambersburg, Pa. \$15,000. Architect, Robert A. Stair, Jr., Guardian Trust Building, York, Pa. Owner, Charles C. Wood, Chambersburg, Pa. Brick, marble trimmings, 2½ stories, 42x65 feet, slate roof, steam heating, electric lighting, hardwood floors. Contract awarded to Charles E. Cump, Chambersburg, Pa.

Store Building (alt.), York, Pa. \$4,000. Architect, Robert A. Stair, Jr., Guardian Trust Building, York, Pa. Owner, name withheld. Consists of new front and general alterations. Contract awarded to Hess Bros., York, Pa.

School, Mahanoy City, Pa. Architect, Frank X. Reilly, Pottsville, Pa. Owner, Board of Education, Mahanoy City, Pa. Brick and stone, fireproof, 3 stories, 66x125 feet, slate roof, metal lath (heating and electric work, separate contracts). Contract awarded to Shamokin Lumber & Manufacturing Co., Shamokin, Pa.

Residence, Easton, Pa. \$6,000. Architect, William Michler, Easton, Pa. Owner, Dr. William A. Seibert, Easton, Pa. Frame, 2½

stories, 30x40 feet, wing 15x15 feet, slate roof, hot air heating, electric lighting. Contract awarded to E. S. Piltinger, Easton, Pa.

Residence (alt. and add.), Easton, Pa. \$10,000. Architect, William Michler, Easton, Pa. Owner, J. I. Kinsey, Easton, Pa. Stone and terra cotta, 2½ stories, 38x45 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors, tile work, metal weather strip. Contract awarded to Asa Smith & Son, Easton, Pa.

Office Building (add.), Lancaster, Pa., \$45,000. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Woolworth Building Company, Lancaster, Pa. Brick, 2 stories, 60x150 feet, slag roof, hot water heating, gas and electric lighting. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster, Pa.

Residence, Spring City, Pa., \$4,000. Architect, J. V. Poley, Royersford, Pa. Owner, F. H. Dusher, Spring City, Pa. Brick, 2 stories, 30x30 feet, shingle roof, hot water or vacuum heating, gas and electric lighting. Contract awarded to Latshaw & Walley, Spring City, Pa.

Dormitories (2), Spring City, Pa., \$100,700. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, Eastern Pennsylvania State Institute for Feeble Minded. Brick, fireproof, 3 stories, 57x115 feet, 64x125 feet, slate roof, electric light, steam heat, dampproofing, metal weather strips, metal lath. Contract awarded to J. P. Breneman, 135 North Duke street, Lancaster, Pa.

Farm Building, Elkins Park, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, George F. Tyler, 131 South Fourth street, Philadelphia. Frame, 1½ stories, 53x48 feet and 40x16 feet, shingle roof (heating and lighting reserved). Contract awarded to M. E. Hauser, Glenside, Pa.

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Perry Building, Philadelphia.

Miscellaneous Construction News

Post Office, Gastonia, N. C. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone, brick and steel, 1st floor fireproof,

1 story, composition roof, steam heating, electric lighting. Owner taking bids due June 16th, 3 P. M.

Post Office, Covington, Tenn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone and brick, 2 stories, composition and slate roof, steam heating, electric lighting. Owners taking bids due June 13th, 3 P. M.

Post Office, Winchester, Tenn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone, brick and steel, partly fireproof, 2 stories, slate and composition roofs, electric lighting, steam heating. Owners taking bids due June 12th, 3 P. M.

Post Office, Jackson, Ky. Architect, Oscar Wenderoth, Treasury Department, Washington, N. J. Owner, United States Government, Treasury Department, Washington, D. C. Stone, brick, terra cotta and steel, 1st floor fireproof, 3 stories, slate and composition roof, steam heating, electric lighting. Owners taking bids due June 17th, 3 P. M.

Institute (alt. and add.), Washington, D. C. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owners, Carnegie Institute, on premises. Stone, 2 stories, 100x127 feet, metal trimmings, dampproofing. Architects taking bids, due May 14th. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

Theatre and Store, Salisbury, Md. Architects, Hoffman Company, Juniper and Market streets, Philadelphia. Owners, Arcade Theatre Company, Salisbury, Md. Brick, terra cotta, steel and concrete, fireproof, 3 stories, 187x51 feet, slag roof, metal lath, concrete fireproofing, steam heating, gas lighting, waterproofing. Architects taking bids, due May 20th. The following are figuring: Smith-Hardican Company, 1606 Cherry street; Fidelity Construction Company, Heed Building; Roydhouse-Arey Company, Fidelity Building; George Hogg, 1634 Sansom street, all of Philadelphia, Pa., and J. A. Bader Co., DuPont Building, Wilmington, Del.

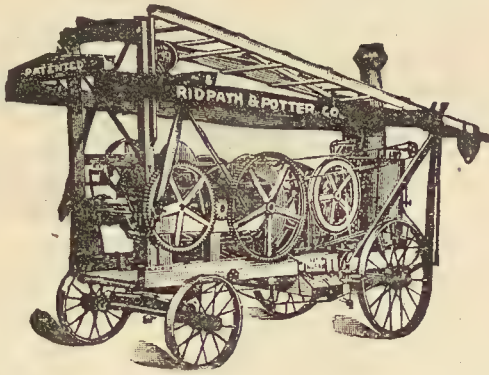
Residence, Wilmington, Del. Architect, private plans. Owner, Frederick Megraw, Wilmington, Del. Stone, 2½ stories, 40x40 feet, shingle roof, hot water heating, electric lighting. Owner taking revised bids, due May 14th. F. A. Havens Co., 845 North Nineteenth street, Phila., is figuring.

Round House, North Birmingham, Ala. Architect, private plans. Owners, Southern Railroad Company, Washington, D. C. Brick and concrete, 1 story, 92x725 feet, slag roof, steam heating, steel sash and frames, damp-proofing. Owners taking bids, due May 28th. Roydhouse-Arey Company, Fidelity Building, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Service Building, Cincinnati, O. \$300,000. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Car Co., Detroit, Mich. Brick and terra cotta, 5 stories, 156x163 feet, tile and slag roof, metal lath, metal doors and trimmings, damp proofing, elevators, metal sash and frames, rolling steel doors (heating and lighting, reserved). Contract awarded to Irwin & Leighton, 126 North Twelfth street, Phila.

Residence, Tobens, Md. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, George S. Jackson, Tobens, Green Spring Valley, Md. Frame, 2½ stories, 25x45 feet; wing, 17x30 feet, shingle roof, vapor or hot air heating, electric lighting, hardwood floors. Contract awarded to the Cowan Building Company, Baltimore, Md.



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NEW JERSEY Construction News

Hotel (alt. and add.), 163 South Broad street, Trenton, N. J. \$15,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Star Hotel, Samuel Levine, on premise. Brick, 4 stories, 20x90 feet, slag roof, steam heating, gas and electric lighting, tile work, trunk life. Architect will award contract in a few days.

Rectory, Whitaker, N. J. \$5,000. Architect, W. P. Endebrock, American Mechanics Building, Trenton, N. J. Owner, St. Mary's R. C. Church, Rev. Father Czibusz, Alpha, Pa. Brick, 2½ stories, 24x33 feet, slate roof, hot water heating, electric lighting. Owners taking bids due May 16th.

Armory, Asbury Park, N. J. \$25,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey, Armory Board, Trenton, N. J. Brick, fireproof, 1 story, 85x83 feet, slag roof, electric lighting, steam heating, metal lath. Owners taking bids due May 19th. The following are figuring: James H. Wells, Heed Building; Metzger & Fisher, Denckla Building; J. W. Emery, 1524 Sansom street; Berry-Goodwin Co., Drexel Building, of Phila.; George B. Wills, 101 Park avenue, New York City; Pierce & Sutts, 211 Fourth avenue, Bradley Beach, N. J.; Rome Corporation, 105 West Fortieth street, New York City; Langan Engineering & Construction Co., 75 Montgomery street, Jersey City, N. J.; Phelps & McAllister, Metropolitan Building, Orange, N. J.; Gustave Denkimpe, 70 Hudson street, Hoboken, N. J.; Herbert Gardner, Asbury Park, N. J.; Casper-Ranger Construction Co., 101 Park avenue, New York City; S. W. Mather & Son, Trenton, N. J.; H. H. Moore, Third street and Passaic avenue, Spring Lake, N. J.; J. C. Lyone & Sons Co., 30 East Forty-second street, New York City; General Engineering & Construction Co., 136 Liberty street, New York City; W. A. Richman, Moorestown, N. J.; William G. Sharwell & Co., 371 North Fifth street, Newark, N. J.; Altoria Realty & Construction Co., 3 East Forty-fourth street, New York City.

Armory, New Brunswick, N. J. \$25,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey, Armory Board, Trenton, N. J. Brick, fireproof, 1 story, 99x75 feet, slag roof, steam heating,

electric lighting, metal lath. Owners taking bids due May 19th. The following are figuring: Berry-Goodwin Co., Drexel Building; Metzger & Fisher, Denckla Building; James H. Wells, Heed Building, of Phila.; Hans Greisen & Son, Second and Paterson streets, Perth Amboy, N. J.; Rome Corporation, 105 West Fortieth street, New York City; Edwin Outwater, 18 East Forty-first street, New York City; George B. Wills, Park avenue, New York City; General Engineering & Construction Co., 136 Liberty street, New York City; Langan Engineering & Construction Co., 75 Montgomery street, Jersey City, N. J.; William G. Sharwell & Co., 371 North Fifth street, Newark, N. J.; Gustave Denkimpe, 68 Hudson street, Hoboken, N. J.; H. H. Moore, 300 Passaic avenue, Spring Lake, N. J.; S. W. Mather & Sons, Trenton, N. J.; Casper-Ranger Construction Co., 101 Park ave., New York City; Richard Barnwell, Highland Park, New Brunswick, N. J.; Lewis Board, 120 Easton avenue; W. P. Clark, William E. Leary, 299 Powers street, all of New Brunswick, N. J.; Phelps & McAllister, Metropolitan Building, Orange, N. J.; Schaefer Construction Co., 5 West Thirty-first street, New York City.

Theatre, Apartments and Store, Burlington, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, J. Ellis, Burlington, N. J. Brick, 2 stories, 75x100 feet, slag roof, hot water heating, electric and gas lighting, tile and composition floors. Plans in progress.

Cow Barn, Glen Gardner, N. J. \$12,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey, Capitol, Trenton, N. J. Stone and frame, 2 stories, slate roof, electric lighting, concrete and wood floors. Plans in progress.

Residence, Burlington, N. J. \$15,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Brick, 3 stories, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Trenton, N. J. \$12,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, John S. Dunham, 164 West State street, Trenton, N. J. Hollow tile and stucco, 2½ stories, green tile roof, hot water heating, gas and electric

lighting, tile work, oak floors. Revised plans in progress.

Garage, East State street, Trenton, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Petry Express & Storage Co., 320 East State street, Trenton, N. J. Brick, 2 stories, 75x116 feet, slag roof, steam heating, electric lighting, concrete floors, elevator. Architects ready for bids.

Stable, East State street, Trenton, N. J. \$10,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Petry Express & Storage Co., 320 East State street, Trenton, N. J. Brick, 2½ stories, 50x90 feet, slag roof, electric lighting, concrete floors. Plans in progress. Architects ready for bids.

School, Beverly, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, School Board, Beverly, N. J. Brick, 2 stories, 50x80 feet, slate roof, hot air heating, gas and electric lighting. Owners taking bids due May 10th. The following are figuring: F. Roe Searing, Perry Building, Phila.; D. E. Boyer & Co., 523½ Arch street, Camden, N. J.; Geo. W. Shaner, (Palmyra, N. J.); W. A. Richman, Moorestown, N. J.; G. D. Logan, Beverly, N. J.; J. E. Kloster, Beverly, N. J.

Shoe Factory (add.), 44 North Second street, Camden, N. J. \$7,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Isaac Ferris, Jr., on premises. Brick and reinforced concrete, 2 stories, 70x27 feet, slag roof, steam heating, safety treads, ventilators. Contract awarded to James W. Draper, 436 Haddon avenue, Camden, N. J.

Rectory (alt. and add.), Gloucester, N. J. \$10,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, St. Mary's R. C. Church, care Rev. M. E. Brie, Gloucester, N. J. Stone, 3 stories, 40x78 feet, slate and tin roof, steam heating, electric lighting, hardwood floors, tile work. Frank Turner, 828 Broadway, Camden, N. J., submitted the lowest bid.

School (alt. and add.), Bordentown, N. J. Architect, Oliver Randolph Parry, 1723 Chestnut street, Phila. Owner, Bordentown Military Academy, on premises. Brick and frame, 1½ stories, slate roof, electric lighting. E. B. Tatum, Bordentown, N. J., is taking sub-bids.

Post Office, Burlington, N. J. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone and brick, 2 stories, composition and slate roof, steam heating, electric lighting. Owners taking bids due June 17th, 3 P. M.

Residence, Merchantville, N. J. Architects, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Henry Humphreys, Merchantville, N. J. Stone and plaster, 2½ stories, 42x45 feet, shingle roof, hot water heating, electric lighting, canvas roof. Architect taking bids due May 12th. The following are figuring: Frank Turner, Camden, N. J.; William Wrixford, 724 Washington street, Camden, N. J.; Harry Hinchman, 626 Penn street, Camden, N. J.; W. A. Richmond, Moorestown, N. J.; Martin James, Merchantville, N. J., and F. B. Davis, 35 South Seventeenth street, Philadelphia.

Public Comfort Station, Atlantic City, N. J., \$15,000. Architects, Stout & Riabenack, Bartlett Building, Atlantic City. Owners, City of Atlantic City, J. B. Thompson, Director. Reinforced concrete, 1 story, electric lighting, tile and marble work, waterproofing, safety treads, Kalamein doors. Owners taking revised bids, due May 14th. Alex. Chambley, 243 South Tenth street; John W. Emery, 1524 Sansom street; Wells Construction Company, Witherspoon Building, all of Philadelphia, are figuring.

School, Elmer, N. J., \$20,000. Architect, Bart Tourison, Land Title Building, Philadel-

phia. Owners, Board of Education, care of Mr. Wainwright, secretary, Elmer, N. J. Brick, 2 stories, 51x80 feet, slate roof, electric lighting, steam heating, safety treads. Owners taking bids, due May 16th. The following are figuring: W. S. Beaumont, Stephen Girard Building, Philadelphia; F. Roe Searing, Perry Building, Philadelphia; J. Paul Emrey, North Wynnefield, Philadelphia; W. A. Richman, Moorestown, N. J.; Berry-Goodwin Co., Drexel Building, Philadelphia; George Hogg, 1634 Sansom street, Philadelphia; D. E. Boyer Company, 523½ Arch street, Camden, N. J.; W. R. Titus, Paulsboro, N. J.; J. B. Rowen, Moorestown, N. J.; A. Bottoms Sons Company, 41 South Fifteenth street, Philadelphia; E. J. Tourison, 1001 Chestnut street, Philadelphia.

Residence, Stone Harbor, N. J., \$9,000. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, H. C. Campbell, Royersford, Pa. Hollow tile and stucco, 2½ stories, 44x40 feet, asbestos shingle roof, hot air heating, electric lighting, hardwood floors, tile work. Architect and owner will sub-let all contracts.

Residence, Atlantic City, N. J. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, Walter J. Buzby, Atlantic City, N. J. Brick, 2½ stories, 33x59 feet, slate roof (heat and light reserved), metal lath. Architect taking bids, due May 18th. R. C. Ballinger Company, 218 North Thirteenth street; Roydhouse-Arey Company, Fidelity Building, of Philadelphia, are figuring.

NEW JERSEY

Contracts Awarded

Cottage and Chapel, Clinton, N. J. \$24,279. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, Department of Charities and Correction, Joseph P. Byers, Commissioner, State Capitol, Trenton, N. J. Brick and plaster, 2½ stories, 29x127 feet, slate roof, hot water heating, electric lighting, metal lath. Contract awarded to Berry-Goodwin Co., Drexel Building, Phila.

School (add.), Ventnor, N. J. \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Ventnor, N. J. Brick and terra cotta, 3 stories, 55x80 feet, slate roof, steam heating, electric lighting, metal partitions, kalamine doors, water proofing, metal ceilings. Contract awarded to Clayton Shappell, Ventnor, N. J.

Residence, Merchantville, N. J. \$3,500. Architect, Thomas Steven, Masonic Temple, Camden, N. J. Owner, J. Gardner, Merchantville, N. J. Hollow tile and frame, 2½ stories, 28x35 feet, shingle roof, hot water heating,

hardwood floors, tile work. Contract awarded to Harry Applegate, Merchantville, N. J.

Picture Theatre, Beach Haven, N. J. \$3,000. Architect, Thomas Stephen Mason Temple, Camden, N. J. Owners, name withheld. Frame and stucco, 1 story, 28x60 feet, asbestos shingle roof, steam heating, electric lighting. Contract awarded to W. L. Butler, Beach Haven, N. J.

Factory (add.), Third and Jefferson streets, Camden, N. J. Architect, Jacob O. Clark, 133 South Twelfth street, Phila. Owners, MacAndrews & Forbes Co., Camden, N. J. Brick, 1 story, 81x87 feet, slag roof, rolling steel shutters, steel sash. Contract awarded to Barclay White Co., Perry Building, Phila.

Residence, Collingswood, N. J. \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, H. L. Goerlich, Jr., Collingswood, N. J. Hollow tile and stucco, 2½ stories, 30x49 feet, tile roof, steam heating, electric lighting. Contract awarded to A. H. K. Doughty, Collingswood, N. J.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

H. W. Baxter (O), Fifty-eighth and Hoffman streets. Cost, \$4,000. Dwelling, brick, 3 stories, 24x34 feet. Cost, \$6,000. Two dwellings, Fifty-eighth and Hoffman streets.

R. L. Moore (O), Hutchinson and Callowhill streets. J. N. Gill (C), Heed Building. Cost, \$7,000. Dwelling, brick, 2 stories, 20x57 feet, Hutchinson and Callowhill streets.

P. Moore (C), 6646 Germantown avenue. Stokes Brothers (C), 6723 Musgrave street. Cost, \$6,000. Store and dwelling, brick, 2 stories, 22x53 feet, 6646 Germantown avenue.

W. Oberholtzer (O), 927 Fanshaw street. M. Stevens (C), 927 Fanshaw street. Cost, \$2,500. One dwelling, 3 stories, 16x47 feet, Fanshaw and Oakley streets.

F. C. Michaelsen (O), 211 South Forty-seventh street. Cost, \$3,500. One dwelling, brick, 2 stories, 20x52 feet, Fifty-fifth and Addison streets. Cost, \$3,500. Store and dwelling. Cost, \$6,000. Two dwellings. Cost, \$40,800. Seventeen dwellings.

E. Widowski (O), Eighty-second and Dicks avenue. Harry McCloskey (C), Eighty-seventh and Gross streets. Cost, \$2,200. Brick, 2 stories, 16x40 feet, Eighty-second and Dicks avenue.

Northern Trust Company (O), Sixth and

Spring Garden streets. A. R. Raff (C), 1635 Thompson street. Cost, \$35,000. Bank, stone, 1 story, 26x128 feet, Sixth and Spring Garden streets.

A. Peoples (O), 2343 West College avenue. Cost, \$10,000. Dwelling, stone, 3 stories, 30x40 feet, Bustleton pike.

Katherine Huegle (O), 2532 West Lehigh avenue. Jacob Gaertner (C), 2214 North Third street. Cost, \$10,500. Two dwellings, brick, 2 stories, 27x27 feet, 2514 North Thirtieth street.

George Groschupf (O), 3115 North Beach street. Cost, \$3,100. One dwelling, brick, 2 stories, 15x66 feet, Z and Bleigh streets.

M. E. Dunlap (O), 456 Monastery avenue. G. Sternle (C), 3445 Sunnyside avenue. Cost, \$3,500. Dwelling, brick, 3 stories, 24x31 feet, Walnut lane and Ridge avenue.

A. Coska (O), 4525 Cambria street. Cost, \$3,200. Three dwellings, brick, 2 stories, 16x42 feet, Duncan and Bermuda streets.

T. A. Phillips (O), 5807 Torresdale avenue. Cost, \$4,000. Two dwellings, brick, 2 stories, 14x38 feet, Hellerman and Torresdale avenue.

M. J. Walsh (O), 819 East Tioga street. Cost, \$10,400. Eight dwellings, brick, 2 stories, 14x51 feet, Shelbourne and Tioga streets.

A. C. Jackson (O), 6445 Greene street. F. A. Havens Company (C), 845 North Nineteenth street. Cost, \$4,500. Garage, stone, 2 stories, 25x40 feet, 6445 Greene street.

C. H. Eckman (O), 2126 North Sixteenth street. Cost, \$192,000. Four dwellings, brick, 3 stories, 16x55 feet, Oak Lane, Philadelphia.

C. A. Shetzline (O), 2023 South Broad street. F. Williams (C), 1432 Wolf street. 15x30 feet, Twenty-seventh and Tasker streets. Cost, \$13,000. Ten dwellings. Cost, \$16,000. Ten dwellings, brick, 2 stories, \$2,500. Store and dwelling. Cost, \$2,800. Store and dwelling.

A. Scikrewe (O), 2700 Pratt street. J. & F. Burkelook (C), 4608 Richmond street. Cost, \$2,400. Store and dwelling, brick, 2 stories, 14x47 feet, Thompson and Howarth streets.

Philadelphia Tract Society (O), Philadelphia. Cramp & Co. (C), Denckla Building. Cost, \$175,000. Building, brick, 6 stories, 114x60 feet, Seventeenth and Arch streets.

S. S. Wilmer (O), 3211 Comly street. Cost, \$10,000. Four dwellings, brick, 2 stories, 25x100 feet, Van Kirk and Dittman streets.

F. C. Kallenberg (O), 4801 Rising Sun lane. Cost, \$2,400. Two dwellings. Cost, \$3,000. Two dwellings, brick, 2 stories, 14x43 feet, Loudon & Hancock streets.

Max Snyder (O), 1937 South Sixth street. Cost, \$5,000. Dwelling and store, brick, 3 stories, 16x51 feet, 1712 South Fourth street.

P. & G. J. Herman (O), 430 Duncannon street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x60 feet, Fifth and Lindley avenue.

J. N. Kissick (O), Betz Building. Cost, \$28,000. Seven dwellings, brick, 2 stories, 16x60 feet, Sixty-first and Pine streets. Cost, \$8,000. Two dwellings.

J. L. Miza (O), 4444 Thompson street. M. Pacan (C), 2513 Orthodox street. Cost, \$8,400. Six dwellings, brick, 2 stories, 16x21 feet, 4428 to 38 Almond street.

H. C. Kolos (O), Braddock and Ontario streets. Cost, \$4,200. Three dwellings, brick, 2 stories, 14x27 feet, Braddock and Ontario streets.

C. W. Rogers (O), 237 South Forty-ninth street. Cost, \$16,000. Eight dwellings, brick, 2 stories, 15x24 feet. Cost, \$3,000. One dwelling. Cost, \$4,000. One dwelling, Edgewood and Locust streets.

Alterations and Additions

Arcade Amusement Company (O), North American Building. Smith-Hardican Company (C), 1606 Cherry street. Cost, \$10,500. Theatre, Marshall and Market streets.

A. S. Hackett (O), 2311 Cumberland street. W. R. Brown (C), 2145 East Fifth street. Cost, \$1,800. Dwelling, 2157 Cumberland street.

Magyar Reformed Church (O), 611 North Sixth street. Eagle Construction Company (C), Fifty-second and Market streets. Cost, \$2,000. Dwelling, 611 North Sixth street.

Kempf Brothers (O), 2611 Coral street. P. Weber (C), 1326 North Fourth street. Cost, \$1,650. Stable, 2623 Coral street.

Point Breeze Park Association (O), Drexel Building. R. Donadi (C), 1122 Passyunk avenue. Cost, \$2,000. Pavilion, Twenty-fifth and Penrose avenue.

S. A. C. Lloyd (O), 1206 Filbert street. C. E. Clark (C), 115 North Thirteenth street. Cost, \$2,600. Restaurant, 1206 Filbert street.

Rice Brothers (O), 1213 North Third street. E. Chase (C), Welsh road. Cost, \$2,500. Warehouse, 1213 North Third street.

Archbishop Prendergast (O), Eighteenth and Race streets. W. J. McShane (C), 417 South Thirteenth street. Cost, \$1,075. School, Twenty-second and Green streets.

G. M. Spiegle (O), Eighteenth and Sedgley avenue. J. N. Gill Company (C), Heed Building. Cost, \$8,000. Shed, Eighteenth and Sedgley avenue.

Joseph Taylor (O), 6118 Pine street. Cost, \$4,000. Garage, Sixty-first and Osage avenue.

Dr. G. F. Baker (O), 421 Walnut street. F. G. English (C), 1608 North Carlisle street. Cost, \$5,400, 515 Market street.

Ira Rikes (O), 2249 North Camac street. Cost, \$1,000. Swimming pool, Penrose avenue and Twenty-seventh street.

Joseph Borska (O), 1500 South Fifty-second street. G. F. Clark (C), 1324 South Forty-eighth street. Cost, \$2,000. Store and dwelling, 1500 South Fifty-second street.

Pennsylvania Sugar Company (O), Columbia avenue and Beach street. Guernsey-O'Meara Company (C), North American Building. Cost, \$1,200. Storage building, Columbia avenue and Beach street.

Dr. C. T. Adams (O), Fifty-seventh and Girard avenue. Cost, \$7,000. Store and dwelling, Fifty-seventh and Girard avenue.

C. C. Harrison (O), 400 Chestnut street. J. B. Flounders (C), 1329 Arch street. Cost, \$5,000. Manufacturing Building, 919 Walnut street.

THE QUANTITY SYSTEM OF ESTIMATING

Great Need for Reform in Methods of Estimating—Causes of the Great Differences in Builders' Estimates.

The need for reform in our methods of estimating is being felt in a greater or less degree in accordance with the amount of work at present put in by different contractors in their competitive figures. There are still many contractors who are content to estimate by taking the cubical contents of a building and figuring it at the same price per foot cube as some similar building which they have bid upon, and these would not appreciate or use quantities if they had them. On the other hand, there are those who go to a deal of labor in very carefully computing the quantities of brick work, concrete, flooring, framing, etc., and between these two extremes there are many methods of estimating. When we add to this the very many different types of plans that we receive to figure, ranging all the way from the carefully drawn engineers' plans with every dimension indicated, to the sketch plans that are sometimes gotten out by the owner himself on which we are supposed to be able to accurately estimate, there can be no wonder that a wide variation exists in the prices bid on construction work.

Causes of Disparity in Estimates.

In a general way it may be said that the causes of the great differences in estimates are due to:

First. Underestimating the unit costs.

Second. Difference of opinion as to what is a fair profit; and

Third. Inaccurate estimating of quantities.

Probably the third is the one factor which causes greater differences than any other.

It cannot be denied that in any one building there cannot be more or less than a certain quantity of masonry, of carpentry work, plastering, etc., and no matter how carefully or carelessly the competing builders may scale their quantities, this quantity of work has to be put in. Why, then, should contractors be first asked to compete against each other in computing the quantities of material they have to furnish? They do not have to guess as to the size of the rooms they have to build or the height of the ceilings, as these are all determined for them.

Quantities of Material Shown on Plans.

Surely it should be the duty of the party who is furnishing the plan to supply in addition the quantities of material shown. It is assumed that if plans are properly drawn it is an easy matter for a contractor to schedule the quantities of work contained in the proposed building. But the fallacy of this assumption lies in the fact that no contractors' estimator, be he ever so expert, can thoroughly understand in one week or ten days the plans which another man has drawn, and probably taken three or four weeks or longer to prepare, and, in consequence, he has to guess on points that are doubtful to him, sometimes guessing too much and sometimes the reverse.

Before any system of quantity surveying becomes established in this country, it will be necessary for those interested to establish some definite standard of measurement and units of measure on all classes of construction work. The methods of measurement are as widely divergent as the methods of estimating and pricing. Some plasterers do not deduct any openings at all, some deduct half openings, and some deduct the full openings. Many masons double the corners and do not deduct stone work. Others measure their brickwork absolutely net. Some plumbers count just the fixtures and the main runs of pipe, while others count up every fitting on each pipe, and this list of differences could be indefinitely extended.

There are many difficulties ahead of the establishment of a quantity surveying system in this country, but I believe that if all those interested will work together for the common end and in a systematic manner the end desired will be achieved sooner than at present appears probable.—Leslie H. Allen, in "Building Age."

ARE ENGINEERS UNDERPAID?

Of course, it could not be claimed that the average compensation of this profession is excessive; nobody claims or supposes that civil engineers as a class are getting rich out of their professional work, says the "Engin-

eerer News in editorially commenting on the statistics collected by the American Society of Civil Engineers. But if the average civil engineer at the end of five years' experience is earning \$2,000 a year, increasing at the end of 11 years to \$3,000 a year, and to \$4,000 at the end of 15 years and \$5,000 at the end of 21 years—if the average civil engineer gets this much return from his professional work, then he has small cause to complain. There can be little doubt that he is doing better than the average physician or lawyer, to say nothing of clergymen and teachers.

But are these average earnings thus compiled really the average earnings of the civil engineering profession? We do not believe that these earnings by any means represent the average compensation of engineers. Rather, they show the average earnings of those who achieve exceptional success in the profession; and that changes their whole significance.

In the first place the membership of the American Society of Civil Engineers represents the men who have succeeded in the profession. In the second place, the professional requirements for membership distinctly limit the privilege to those who are or have been "in responsible charge of work," as the society's constitution puts it.

It would be interesting to inquire what percentage of the civil engineers of the United States hold membership of one grade or another in the American Society of Civil Engineers.

COMPONENTS OF THREE USEFUL CEMENTS.

One of the simplest hard cements is the well-known mixture of litharge and glycerin made to a stiff paste. It sets hard as a rock and is oil proof. A solution of water glass mixed with powdered calcium carbonate serves the same purpose.

A mixture of boiled linseed oil and fire clay resists acid better than most cements, though sulphur melted with glass powder is also ranked as very resistant to chemicals in general.

A good stone cement is made by mixing two parts of magnesium oxide, one part of magnesium chloride, powdered stone to suit as filler, and water to make a stiff paste. Basic magnesium chloride is formed.—"Scientific American."

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Irving Dillon Editor

PHILADELPHIA, PA., MAY 13, 1914.

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(Organized 1857)

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Editorial Comment

The twentieth architectural exhibition given by the Philadelphia Chapter American Institute of Architects and the T-Square Club closed on Saturday last. It was in many respects one of the least notable affairs of its kind within recent years. The new work shown was in no sense notable, the notable work not new. The exhibit, as a whole, was small and unimportant. "The Guide" would like to see a keener and more aggressive interest in this annual exhibition on the part of the men in the profession who "do things." Architecturally Philadelphia is one of the greatest cities in the United States. If the men who do the big things architecturally could be induced to show the interest that they should in this annual exhibition it would be one of the very notable events of the year. The exhibition just closed, while excellent so far as it went, was only mildly representative. Why? Is the cause to be found in lack of thoroughness in preparation, general apathy among the men whose work is best worth showing or a growing unwillingness to submit to popular judgment works the technical difficulties of which may be grasped only by the illuminati. The cause, whatever it may be, should be eradicated to the end that Philadelphia's annual architectural exhibit may be made worthy of Philadelphia's eminence as an architectural center. A passably creditable exhibition is not enough. It doesn't suffice. An effort should be set afoot,—now,—to prepare for something bigger and better, more varied and representative this time next year. Not only more representative architecturally, but more representative generally. There should, for example be a display of certain lines of craftsman's work. High-class decorative work and accessories generally should have space in the exhibit. The architectural entries should be more numerous, more varied and include more that is new and notable than has been the rule in recent shows. What is worth doing at all, says an old adage, is worth doing well.

* * *

New York City is beginning to feel, in common with other large cities, the depressing effect of "too much inspection." In New York, as in Philadelphia, the municipal authority as expressed upon its official side, is so scattered and distributed among separate but overlapping bureaus and sub-divisions of bureaus as to render the life of the property owner almost insupportable. The condition complained of so closely resembles a condition we face here in Philadelphia,—due to the same unwise and unbuisness-like apportionment of official power,—as to be of more than passing interest. As stated in the "New York Sun" the objections of the Real Estate Board sum up about as follows:

"The present condition of the supervision of buildings and their construction in New

York City can only be described at this time as chaotic. As the matter stands the property owner hardly knows where to turn; he is confronted on every side by innumerable city departments, each having jurisdiction over something that pertains to the construction or equipment of his buildings. The jurisdiction of the various departments is constantly overlapping. One department orders an owner to do certain things in connection with his building and in attempting to comply he frequently finds that he is conflict with the requirements of some other bureau or department.

Complaint heard in every direction against this economic waste has caused the Real Estate Board of New York to make an expert analysis of the situation here.

Hardly a year passes, according to this report, in which some new board, commission or bureau is not created by either the Legislature or Board of Aldermen to regulate or supervise something relating to buildings.

When disaster occurs in a building legislators pass new laws creating new commissions and boards, in an attempt to remedy conditions supposedly responsible for the disaster. Rarely, if ever, is an attempt made to strengthen an existing department or bureau to render it more efficient."

* * *

"The Bureau of Building Inspection of the Fire Department was charged originally with enforcing the building laws. This was in 1892. Afterward a Department of Buildings was created by act of Legislature, the executive officer being known as the Superintendent of Buildings. This department had jurisdiction over all matters formerly lodged with the Fire Department.

On the passage of the consolidation act creating the greater city of New York provision was made for a Department of Buildings, covering all five boroughs of the greater city; this department was clothed with practically full powers over buildings. A commissioner appointed by the Mayor was at the head, with a deputy in each of the boroughs.

In April, 1901, the tenement house act became a law, creating a Tenement House Department, removing from the Department of Buildings all jurisdiction over tenements except in the matter of construction. In January, 1902, the Department of Buildings was abolished and a separate bureau created for each borough under the control of its President, who appoints the superintendent; this system is at present in force. In October, 1911, the fire prevention law went into effect. This law transferred from the Bureau of Buildings to the Fire Department all jurisdiction over exits and means of egress. In March, 1913, the industrial board of the Labor Department was organized, whose jurisdiction extends to all factories, factory buildings and mercantile establishments. In Au-

gust, 1913, the Board of Aldermen put all moving picture shows seating less than 600 persons under the control of the Bureau of Licenses.

The result of all this has been the multiplication of bodies having jurisdiction over buildings with no compensating advantages."

* * *

"At present there are fourteen departments, boards or bureaus that have jurisdiction over matters affecting buildings as follows: Bureau of Buildings, Tenement House Department, Fire Prevention Bureau, Bureau of Combustibles, Department of Water Supply, Gas and Electricity, Police Department, Bureau of Boiler Inspection, Bureau of Licenses, Department of Docks and Ferries, Department of Parks, Department of Health, Department of Highways, Industrial Board and the United States Agriculture Department.

The Government's jurisdiction of New York buildings is gained through the purefood law. Under the measure plans for buildings which are to be used in the manufacturing of food to be sent from State to State must be inspected by the Federal bureau.

To maintain these numerous bodies an appropriation of over \$2,000,000 a year is needed and between 600 and 700 inspectors and engineers employed in addition to the numerous clerical force for administration."

* * *

"The scattering of authority and the lack of concentration have not only increased the cost of building operations in this city very materially, but have also made the enforcement of the laws relating to buildings more difficult.

To conduct a building operation in this city in many instances it is often necessary to secure permits from three to eight different bureaus or departments, which is a needless and unnecessary expense.

The Real Estate Board's expert suggests that the rational and effective remedy would be the consolidating of the various departments, bureaus or commissions that may have to do with buildings into one great department which should have exclusive jurisdiction over all matters pertaining to buildings of every description, including the issuance of licenses for concerts, theatrical and other shows.

The creation of such a department would centre responsibility in one head and would both increase efficiency and economy at a conservative saving of \$300,000 a year."

* * *

If the Bureau of Municipal Research had confined its activities to remedying conditions such as these in place of using its resources in the attempt to play at politics, it might have rendered the citizens of New York and Philadelphia a great and lasting public service. A secure and permanent place in the temple of fame, municipally at least, awaits the Mayor who can bring to the effective co-ordination of the present far-flung and hopelessly-involved inspectorial functions the necessary measure of common-sense, practicality and unity of effort. No private cor-

poration of any size would tolerate for a moment the confusion, red-tape, overlapping authority and muddled ineffectiveness that today marks the work of the average modern American municipality.

* * *

The vagaries of competitive bidding is such an old story that little that is new may be presented about it. A recent comment in the San Francisco "Architect and Engineer" is so strikingly corroborative of the theory, advanced by shrewd builders, that, in the final analysis, it is "all a game of guess with the final prize to the best guesser," that we cannot refrain from referring to it.

"Every so often," says our coast contemporary, "we hear of a surprising difference of opinion as to the cost of doing a given piece of construction work and if the contract happens to be let to the low bidder frequent comments are heard as to just how the low man will 'pull out.' Recently bids were opened for the construction of one of the Fair buildings for the Panama-Pacific Exposition Company. The low bidder was \$58,000 under the next lowest man and \$145,000 under the highest bidder. At Berkeley a few weeks ago a contract was let to T. J. Shea, of Los Angeles, to construct a concrete sewer for \$52,505.40, or \$33,000 under the highest bidder. At a recent sewer letting in the East the prices of the low bidder amounted to \$277,500, while the high man bid \$542,400. In the last named case were two men, both of them experienced contractors, by the way, figuring on the same contract and their bids showed a difference of nearly 100 per cent. Which bid was right? If the work could be done at a profit at the prices named by the low bidder, then the high man would have made a remarkable clean-up. If the high bidder was right in his estimate the low man stands to suffer a heavy loss. Possibly, of course, the high bidder didn't particularly care whether or not he got the contract; possibly also the low bidder wanted the work badly, and for that reason was willing to take it at little profit. But this doesn't account for the 100 per cent. difference in their bids.

The average of the total bids was about \$383,000, and five of the bidders were below this sum. That the bid of the high man was excessive there is little doubt; that the low man bid too low remains to be seen. These incidents are cited only to show the difference of opinion of the contractors."

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . —R. R. Shuman, in "Standard Advertising."

RECENT TRADE LITERATURE.

The Pennsylvania Door and Sash Company, 908 Second avenue, Pittsburgh, Pa., and with Philadelphia headquarters at Twenty-fifth and Callowhill streets, is sending out a very attractive catalogue of 212 pages relating to mill work turned out by this concern. The goods include sash and doors, inside and outside blinds, stair newels, balusters and rails, beam finish, plate rails and interior hardwood columns and colonnades, window frames for brick buildings, store fronts, staved Colonial columns with composition caps, gable ornaments, mantels, kitchen cabinets, china closets, moth-proof chests, suspended porch settees, step ladders and a varied line of leaded and art glass. The work concludes with designs of parquet floors, embossed moldings, etc.

* * *

Asbestolith Manufacturing Company, No. 1 Madison avenue, New York City, is distributing a folder in which are set forth the merits of Asbestolith flooring, sanitary base, wainsteoting, trim, etc. The claim is made that it is impervious to heat, cold and dampness, is noiseless and elastic, will not chip, tear loose from its base nor disintegrate. It is said to be easily laid while in a plastic condition on any surface and that it is ready for use in a few hours, making an excellent covering for old wood or cement floors.

* * *

In the first issue of the "Medusa Review," which is the house organ of the Sandusky Portland Cement Company, Sandusky, Ohio, there is presented the following legend of "Medusa," which we give for the interest it may have to the architect, the builder and the contractor, some of whom may not know the literal significance of the word:

"Athene, enraged at the beautiful Medusa, changed her into a Gorgon, a monstrous woman-creature with snaky locks, a look into whose face turned the beholder into stone. Perseus, son of Jove and Danae, by command of the wicked King Polydectes, and provided by Hermes and Athene with winged slippers and a helmet of invisibility, cut off the head of the Gorgon, avoiding her fatal eyes by looking only at her reflection in his shield. On his homeward way he rescued from a sea monster the beautiful maiden Andromeda, turned the giant Atlas into a mountain, and at last punished Polydectes and his counselors by showing them the head of Medusa, which changed them to stone images."

* * *

A very attractive catalogue issued by the Trenton Potteries Company, Trenton, N. J., shows an extensive line of sanitary pottery embracing bath room, toilet, kitchen and laundry fixtures which cannot fail to interest the architect, the builder and the houseowner. The catalogue is divided into sections, one part being devoted to "Ideal" porcelain bath tubs, foot and sitz baths; another is given up to "Ideal" porcelain lavatories and drinking fountains; another to "Ideal" porcelain ur-

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You want to have your home bright and cheery and comfortable, don't you? Nothing will add more to its appearance and to your comfort than Electric Light. Your house can be wired for Electricity without dirt or noise and without injury to walls or ceilings, and you may take advantage of our deferred payment plan. For details consult



inal stalls; still another to "Impervio" vitreous china lavatories of such varied and complete designs as to furnish the builder a fixture suitable for every requirement and finally an elaborate section on "Vitreous" china drinking fountains, water closets and closet tanks. The illustrations are half tone engravings of the actual goods and the entire make-up of the work is such as to render the catalogue a desirable addition to the architects' and builders' collection of trade literature.

* * *

The April issue of "The Ceresit Waterproofer," issued by the Ceresit Waterproofing Company, 110 South Dearborn street, Chicago, Ill., is a most stimulating and snappy little publication rehearsing the well-known merits of "Ceresit," the widely used waterproofing compound manufactured by this hustling concern. Among its features is a back page "pome" that tells the Ceresit story in rhyme, one of the Darius' contributions which adorns each issue of this sprightly little booklet.

Your salesman would consider himself fortunate to get **ONE TEN-MINUTE INTERVIEW** with a busy architect **IN THREE MONTHS**. We **REACH** and **TALK DIRECT** to men of this calibre **FIFTY-TWO WEEKS IN THE YEAR!**

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**At the last annual meeting of the Glidden Varnish Company Mr. Francis H. Glidden, its founder, and who for thirty-one consecutive years had filled the office of president, sprung a surprise to the Board of Directors by tendering his resignation. Mr. Glidden, who is now past eighty years of age, but still active and enjoying good health, said it was time to give way to the merits of the younger element, and declined to be re-elected president. The Board of Directors, in appreciation of the long service rendered by Mr. Glidden, created the new office of "chairman of the Board of Directors," to which office he was unanimously elected. The following officers were then elected, namely: Mr. Fred A. Glidden, president; Mr. F. K. Glidden, vice-president; Mr. W. J. Glidden, treasurer; Mr. R. S. Leonard, secretary.

*H. N. Hinckley, architect, has opened offices for the practice of his profession in the Ithaca Savings Bank Building, Ithaca, N. Y., and desires samples and catalogues from manufacturers interested in the building trades.

**According to statistics prepared by the Department of Commerce at Washington, New York is the greatest seaport in the world, having in 1913 had 14,464,161 tons of entered shipping and 14,370,619 of cleared shipping. Hamburg, Antwerp, London, Rotterdam and Hong Kong came after in amount of shipping entered and cleared.

*Christ Schlusing, who has just opened an office at No. 1 Broadway, New York City, for the general practice of architecture, desires to secure samples and catalogues from manufacturers of various materials used in building construction.

**An organization known as the Building Material Dealers' Association of Eastern Pennsylvania has just been effected at Reading, Pa. It is intended to include in the organization all prominent dealers in building supplies in Eastern Pennsylvania and to do away with the competition offered the retailers by the manufacturers in their factory-to-home plan.

**Morris Whinston, formerly of the firm of Whinston & Polak, architects, has opened an office for the practice of architecture at 459 Stone avenue, Brooklyn, and desires catalogues and samples from manufacturers interested in the building trades.

**While the City of New York (proper) contained in the 1910 census 4,766,883 inhabitants, it is officially estimated that on the 1st of July next it will hold 5,583,871 inhabitants. In "the metropolitan district" of New York, which includes not only the city proper, but a large suburban territory, that is

substantially a part of the metropolis, making 16,927 acres, there was in 1910, 6,474,568 inhabitants, as compared with 7,252,963 in the metropolitan district of London, in 1911. New work was increasing at the rate of 40.5 per cent. in ten years and London at the rate of only 10.2 per cent. It is now claimed by some statisticians that New York's metropolitan district in this year of 1914 contains 7,454,296 inhabitants, against 7,448,681 in London. If this is correct, New York is now the greatest city in the world.

**Gum Lumber Manufacturers' Association will hold its annual meeting and convention at the Gayoso Hotel, Memphis, Tenn., May 19-20. The association is sending attractive invitations, printed on pieces of unfinished red gum veneer to those interested in the manufacture or use of this wood. Interesting programs for all sessions of the convention are being prepared, one of the principal features of which will be the report of Robert M. Carrier, chairman of the Committee on Technical Research. This report will deal with the questions of proper methods of manufacture, handling and caring for gum lumber, and will be of considerable importance to those interested in obtaining the wonderful decorative and utilitarian results that can be obtained from the use of this wood.

**Atlantic City has been chosen for the seventeenth annual meeting of the American Society for Testing Materials, on June 30-July 4. Headquarters will be at the Hotel Traymore.

**An alliance has been formed between the Conlon Washer Machine Company, of Chicago, and the Western Electric Company. Under the arrangements, the entire line of Conlon electric washing machines will be marketed exclusively by the Western Electric Company under the trade name of the "Western Electric-Conlon." This selling arrangement involves no changes in the manufactory. Ample stocks will be carried at each of the twenty-eight Western Electric distributing houses located at shipping centres throughout the United States.

**The American Water Works Association will hold its annual convention at Philadelphia, Pa., May 11-15. Secretary J. M. Diven, 47 State street, Troy, N. Y.

**The Asbestos Protected Metal Company, Beaver Falls, Pa., has removed its Pittsburgh office to 1611 Bannockburn-Trees Building, with H. E. Marks continuing as district manager. Besides asbestos protected metal for roofing and siding, this company now manufactures a complete line of prepared roofing and shingles to meet the requirements of all kinds of buildings.

**At a recent meeting of the Sheet Metal Contractors' Association of Cleveland, Ohio, the subject of "System in Business" was interestingly discussed by George A. Rutherford, president of the Builders' Exchange of that city, who explained the system used in his business as a building contractor. Other speakers included Edward A. Roberts, the well-known secretary of the Builders' Exchange, and E. H. Boehm, of the Industrial Association of Cleveland.

**The Canton Sheet Metal Contractors' Association is the name of an organization of sheet metal men just effected in Canton, Ohio, with headquarters at 223 Third street, S. E. C. L. Wills is president; L. S. Motz, vice-president; C. A. Zellers, secretary, and H. H. Wimer, treasurer.

**Mr. Walter C. Allen, who for the past five years has held the position of general manager of the Yale and Towne Manufacturing Company, was unanimously elected a vice-president at a meeting of the Board of Directors on March 12th, 1914.

**The annual convention of the Florida Association of Architects was held at Tampa, Florida, February 21, 1914, and the following officers were elected: President, George L. Pfeiffer; first vice-president, M. L. Elliott; second vice-president, Rutledge Holmes; secretary and treasurer, E. A. Ehmann. The semi-annual convention will be held in July at Atlantic Beach, Florida, the exact date to be set later by the Board of Directors.

**Mr. George Creeford Browne, of South Nyack, N. Y., has intimated his intention of giving \$10,000 to form a fund for a scholarship in architecture in connection with the architectural department of McGill University, Montreal, Canada. The scholarship, it is understood, is to be in commemoration of the donor's father and is to be known as the George Creeford Browne Scholarship. Mr. Browne was formerly a prominent architect in Winnipeg, the youngest son of the late George Browne, Esq.

**Mr. C. H. Hinnant, architect, formerly with Charles M. Robinson, Inc., of Richmond, Va., announces that he has opened offices of his own to practice his profession in Roanoke, Va., 416-417 Watt and Clay Building. He wishes to receive manufacturers' catalogues.

**Mr. A. P. Hoover, engineer, with the John W. Ferguson Company, of Paterson, N. J., and New York City, was elected a member of the American Society of Engineers at their last meeting.

**The firm of Irvin and Witherow, of Pittsburgh, Pa., has been dissolved. Mr. Richard Irvin will continue the practice of architecture at 308 Union Bank Building, Pittsburgh.

**The Bryn Mawr Electric Company, Morgan R. Davis, manager, have removed their offices and showrooms to the Powell Building, 869 Lancaster avenue, Bryn Mawr, Pa. This concern started in business in Bryn Mawr in December, 1912, and under Mr. Davis's management the business has steadily grown until it was necessary to open new and larger offices and showrooms. In addition to their electric wiring department, the Bryn Mawr

Electric Company carries in stock ready for immediate installation a complete line of electrical household supplies and equipment. Some of the recent buildings wired by this concern are the Ardmore School, three schools in Haverford Township, Post Office Building at Oxford, N. C., and more than fifty private suburban residences.

**The Steward & Stevens Iron Works, manufacturers of structural and ornamental iron work, announce their removal from the corner of Ninth and Montgomery avenue,—where they have been located since 1892,—to 1716 North Ninth street, just below Montgomery. This widely known and enterprising concern is one of the oldest, if not the oldest in the local iron trade. The business was established in 1812 by John Joyce at Sixth and Cherry, whose line was machine work, bell hanging, general blacksmithing and iron for builders. Joyce was succeeded by Joyce & O'Hare, which firm was in turn succeeded by Steward & O'Hare, Steward & Stevens, John S. Stevens, and in 1892 by John S. Stevens & Sons, who established the Ninth and Montgomery plant. In 1900 the firm name became W. W. & R. S. Stevens, changing subsequently to Stevens & Hannis. In October, 1902 the style of the firm was changed to its present form, the Steward & Stevens Iron Works. A peculiar feature of the history of the concern is that since its establishment in 1812 there has been an unbroken succession of son succeeding father, or apprentice or employee succeeding employer. W. Nelson Mayhew, present head of the concern, has been associated with it continuously since May 19, 1900. Samuel Frank, of the present partnership, has been with the firm since the founding of the Steward & Stevens Iron Works in 1902. The works is not incorporated, has been an unlimited partnership always. The Steward & Stevens Iron Works controls the Montgomery Iron and Steel Company and the Keystone Novo Company, both of this city. The firm specializes at present in structural and ornamental iron work, fire escapes, packing house supplies, brass and wire work and miscellaneous builders' iron work. The firm is a member of the Philadelphia Master Builders' Exchange, of which body Mr. Mayhew is a Director.

WALL PAPER.

Wall hangings have been used for the covering up and embellishment of wall surfaces from the earliest times. Probably the first of the kind were skins of beasts. Then with the introduction of weaving came woolen and fibrous cloths, plain or embellished by needlework or painting, says the "Practical Decorator." Leather was a further development, doubtless suggested by its greater durability and the ease with which it could be cleaned. Later came tapestry, stamped and embroidered velvets, silks and rich stuffs of other material.

The use of hangings was doubtless originally suggested by the necessity of keeping out draughts and colds in the rudely fashioned buildings of early date and the dwell-

ers in tents used and still use them for this purpose, as is exemplified to the present day by the nomadic tribes of the Soudan. The necessity for a cheaper material than was in current use was evidently felt, as no sooner was paper invented than it was used for the purpose of wall decoration.

The first wall papers were introduced into England by William of Orange and the first attempt at their manufacture in that country followed immediately. They were, of course, made in sheets, as the ability to make paper in continuous rolls was not acquired till later.

AN INTERVIEW WITH F. HOPKINSON SMITH.

"Charcoal," said Mr. Smith, "is the unhampered, the free, the personal individual medium. No water, no oil, no palette, no squeezing of tubes, nor mixing of tints; no scraping, scumbling, or other dilatory and exasperating necessities. Just a piece of coal, the size of a small pocket-pencil held flat between the thumb and the forefinger, a sheet of paper and then 'let go.' Yes, one thing more—care must be taken to have this forefinger fastened to a sure, knowing, and fearless hand, worked by an arm which plays easily and loosely in a ball-socket set firmly near your back bone. To carry out the metaphor, the steam of your enthusiasm, kept in working order by the safety-valve of your experience, and regulated by the ball-governor of your art knowledge—such as composition, drawing, mass, light and shade—is then turned on.

"Now you can 'let go,' and in the fullest sense, or you will never arrive. My own experience has taught me that if an outdoor charcoal sketch, covering and containing all a man can see—and he should neither record nor explain anything more—is not completely finished in three hours, it can never be finished by the same man in three days or three years."—From the Journal of the American Institute of Architects.

ASBESTOS-COATED STEEL—INDESTRUCTIBLE!

Here is a new construction material—asbestos-covered steel—which is said to be practically indestructible. The Duckback brand, for exterior use, is composed of a steel sheet, of U. S. Standard gauge, 18, 20, 22, 24 or 26, coated on both sides, with one or two layers of asphalt, applied hot, on which is compressed a layer of long-fiber asbestos, in gray or terra cotta colors. The sheets are either flat, corrugated or beaded, and are attached to the roof structure in the same manner as black or galvanized plates. Their weights range from 125 to 225 pounds per 100 square feet. The price of 22-gauge metal is \$11.50 per 100 pounds.

The asbestos will take and hold paint, if desired, but this is not necessary for the preservation of the material, one of its rec-

ommendations being that the cost of maintenance is practically eliminated. The material has been proved under the most severe use, as roofing and siding for acid factories, steel plants, coal mine installations and fertilizer factories near the seacoast. About 400,000 square feet of this material were recently used in covering a modern zinc-smelting works.—“Mining Journal.”

CEILING DECORATIONS.

In decorating a room it should be remembered that the ceiling is not a negligible quantity, a mere device to separate one room from another. It is really no less than a wall, and should be treated with at least as much care as a wall or a floor, of which it is often only the other side. It also takes the place for the time being of the sky.

In France and Italy the idea of the ceiling sky finds expression in the pale blue of the ceiling, or, going a step further, in suns and stars, or clouds and cherubs which adorn it. Foliage, if properly treated, makes a good subject for ceiling decoration, because it again suggests the natural roof that would be formed by the tree branches. But these are subjects for a country where plenty of sunlight permits of a great deal of outdoor life. They are less suited to blazing fires or hot-air apparatus.

The English ceiling lends itself best to paneling, though this is chiefly confined to the dining room. Generally speaking, the tone of an English dining room, even to-day, is warm and dark, browns and reds giving it a warm, cozy appearance. If paneling is not possible, a black paper gives a very good effect, or, better still, a paper slightly dulled with black to render it at the same time mellow and inconspicuous.—“House Beautiful.”

GRAINS IN WOOD.

Woods having the “silver grain,” or as called by botanists, “medullary or pith rays,” possess another sort of ornamentation, namely a sort of dappled effect, or an effect similar to that produced on silk by threads running crosswise to those longitudinally disposed. The European oak, variously known as English oak, Riga and Dutch wainscot, Austrian wainscot, etc., has this peculiarity. In the oak plank the principal streaks or lines are the edges of the annual rings, which show, as usual parallel lines (more or less waved) from the curvature of the tree or the neighboring knots and branches. The damask pencilings, or broad curly veins and stripes, are caused by groups of the pith rays, which undulate in layers from the margin to the center of the tree, and creep in between the longitudinal fibers.

If the fibers in the wood were arranged with the uniformity and exactitude of a piece of plain cloth, there would be an even uninterrupted color, but since they are arranged by nature in irregular curved lines, every action of the tools partly removes some and exposes others, thus causing a great variety of

figure. To such a boundless extent do the changes caused by tints, fibers, curls, knots, etc., exist that the users of fancy woods scarcely ever seek to match pieces for the purpose of producing uniformity of figure. Diversity in figure is often more pleasing to the eye than uniformity would be, if it were practicable.—“The American Architect.”

BUILDING IN INDIA.

Building operations in India have hitherto been noted for undue cost and unwieldy construction in many particulars. For instance, the Taj Mahal Hotel, the largest in India, required nine years to construct and cost \$1,330,000, notwithstanding the great cheapness of native labor. Steam power was used for pumping out the foundations, grinding mortar and for cutting up scantlings, but the sawing of logs and every other kind of work was carried out by manual labor. Lifts or elevators were established on the completion of the building but all the material of construction was raised even to the top of the dome, either by manual winches or on the heads of coolies who walked up and down very steep gangways of rough bamboo. There were no wood-working machines employed except a circular saw.

HOW MANY ENGINEERS ARE THERE?

There is at the present time, and has been for some years past, an annual output of graduates from the schools of civil engineering in the United States amounting probably to 4,000 to 6,000 per annum. Besides this annual increment, there must be included the large number of students who take a partial course in the engineering schools and leave without graduation to take up engineering work. There is also the considerable number of men who work into engineering without the advantage of an engineering school course, adding to their practical experience on actual work such knowledge as they can gain from the correspondence schools' aid in home study.

What the total number of civil engineers in the United States may be at the present time can only be guessed, especially since, as noted above, there is no possibility of drawing a hard and fast line as to who is and who is not a civil engineer. It is probable, however, that those engaged in civil engineering work of one sort or another, not including, of course, those engaged merely as laborers or skilled workmen, number not less than 100,000 at the present time.—“Engineering News.”

When the game is advertising, specializing pays. You couldn't advertise hats in a brick magazine any more than you would advertise corsets in a tobacco trade journal. Selecting your medium depends on the class you aim to reach. If the class is architects or builders, your medium is “The Guide.”

METAL SPRAYING.

Metal spraying is a new process which has recently appeared in Germany to take the place of electrolytic metal plating. It is not limited to metal plating, but can be used for depositing a film of metal or glass upon wood and other substances.

The special apparatus used in the process is a nozzle, like a blowpipe, for producing an oxyhydrogen flame. The metal or glass to be sprayed is fed into the center of the flame in the form of a wire passing through the nozzle. As the flame comes in contact with the end of the wire it melts off small particles of the metal and deposits them in the form of a spray upon the object to be plated. Besides its industrial use in metal plating, the process has a place in the arts in the making of medals and bas-reliefs.—“Popular Mechanics.”

THE BUILDERS' GUIDE

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Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: “Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him.”

Don't expect outsiders to give you a big rating on a one-inch space.

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Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
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Brick Renovating.

Adolph Christensen, 1433 Brown st.

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Mitchell Bros., 2125 Race st., Phila.
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Samuel H. French & Co.,
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Hardwood Floors.

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William Thomson, 64-66 N. 2nd st., Phila.
Liberty Stove Co., 114 N. 2nd st., Phila.

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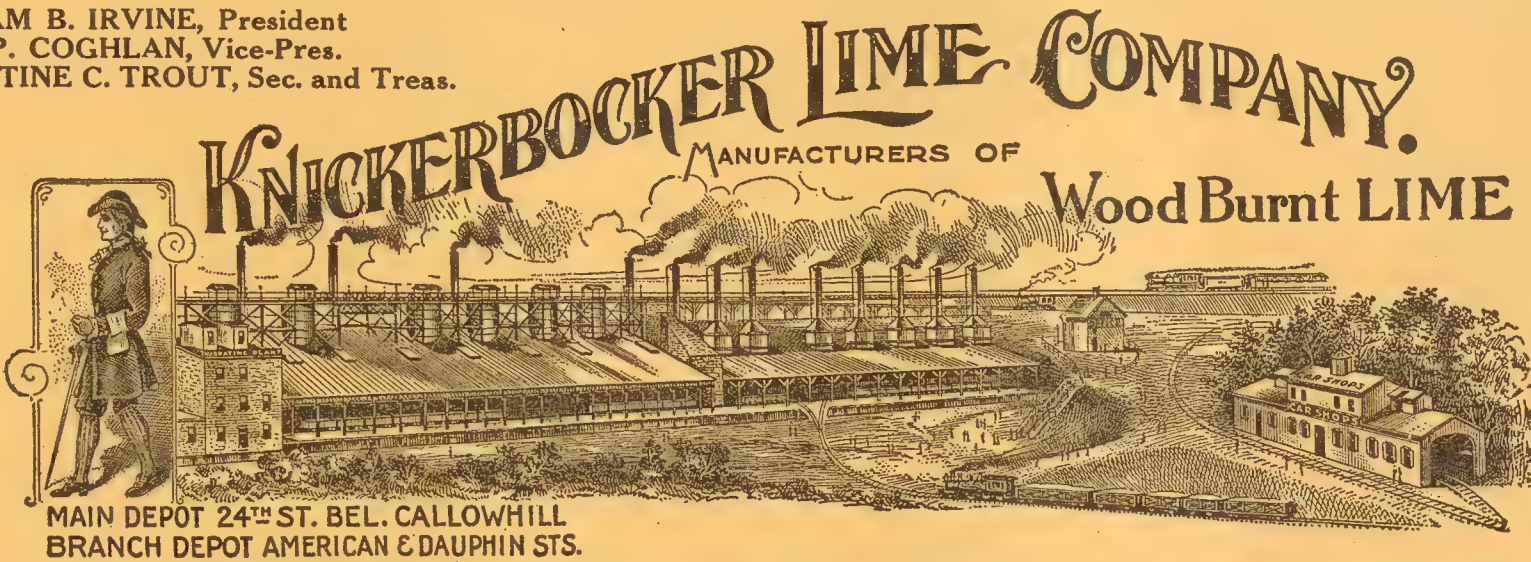
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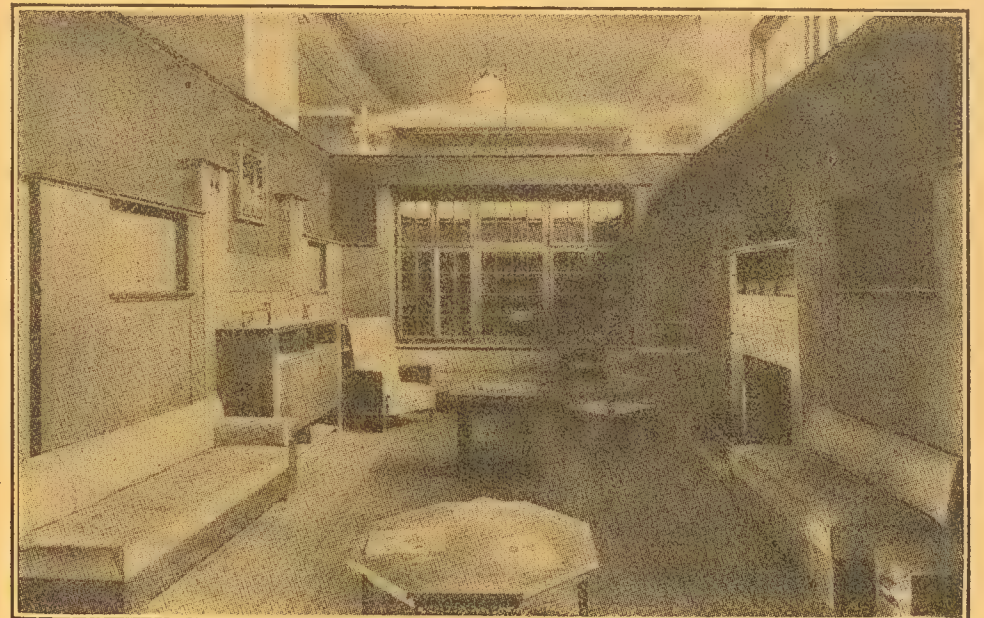
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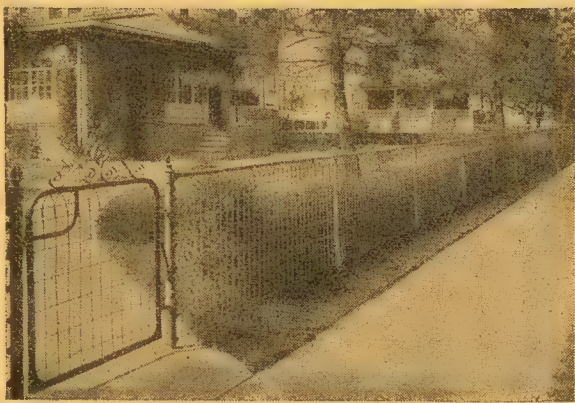
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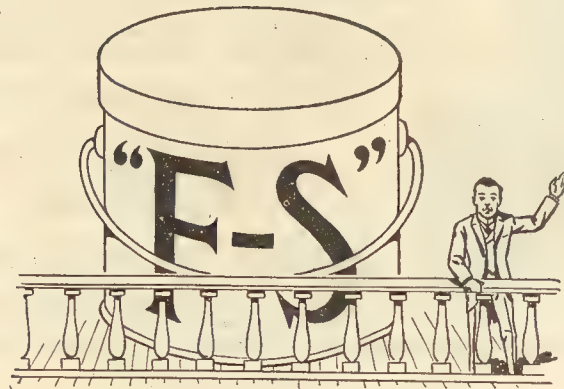
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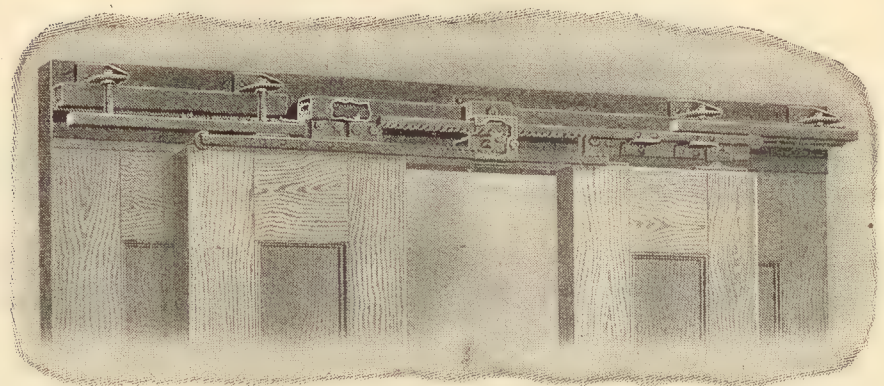
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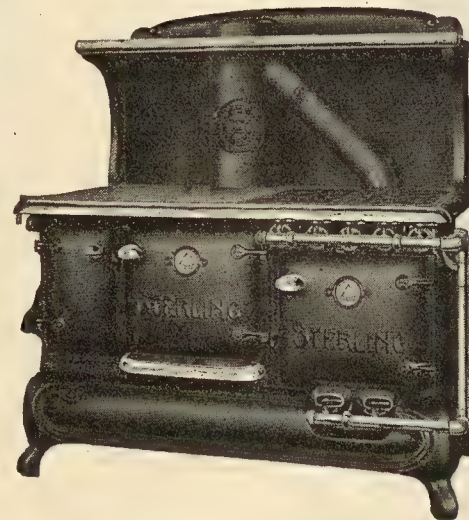
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Vol. XXIX., No. 20.

PHILADELPHIA, WEDNESDAY, MAY 20, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store and Residence, 325 South Fifth street. Architect, F. N. Greisler, 412 South Fifth street. Owner, C. Katman, on premises. Brick, 3 stories, slag roof, electric lighting. Architect has received bids.

Apartment House, Mentor and A streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, F. P. Hood, Fifty-second and Walnut streets. Brick, 2 stories, 22x92 feet, slag roof, steam heating, electric lighting. Owner taking bids. J. Richard Jackson, Perry Building, and J. R. Henderson, Olney, Pa., are figuring.

Garage, Front and Richmond streets. Architect, F. N. Greisler, 412 South Fifth street. Owner, Simon Weil, care of architect. Brick, 2 stories, 90x95 feet, slag roof, steam heating, electric lighting. Plans in progress.

Stores and Apartments (6), Sixtieth and Larchwood avenue. Architects, Hokanson & Van Voorhees, 4617 Locust street. Owner, C. E. Swoboda, 5341 Market street. Brick, 2 stories, 40x112 feet, slag roof, steam heating, electric lighting. Owner taking bids. E. J. Kreitzburg, 1345 Arch street, and F. B. Davis, 35 South Seventeenth street, are figuring.

Residence (add.), 6331 Lancaster avenue, Overbrook, \$7,500. Architect, private plans. Owner, Judge C. Y. Audenried, on premises. Brick, 2 stories, 22x40 feet, slate roof, steam heating, electric lighting, hardwood floors, metal lath. Builder, William R. Dougherty, 1610 Sansom street, is taking sub-bids.

Shop and Residence, 528 Bainbridge street. Architect, F. N. Greisler, 412 South Fifth street. Owner, J. Fogel, 534 Bainbridge street. Brick, 3 stories, 20x48 feet, slag roof, electric lighting (heating reserved). Architect taking bids, due May 20th. T. C. Trafford, 1613 Sansom street; M. Bakst, 1640 North Sixth street; Klos & Reiff, 1132 Race street; M. Yachknitz, 1202 North Seventh street; M. Benamy, 314 Reed street, are figuring.

Warehouse, 410-12 South Water street. Architect, private plans. Owners, Pennsylvania Warehousing and Safe Deposit Company, 113 South Third street. Brick and reinforced concrete, 5 stories, 130x35 feet, slag roof, waterproofing, metal frames and sash,

expanded metal lath, rolling steel doors and shutters (heating, electric work, elevators reserved). Owners have received bids.

Manufacturing Building, Ninth and Susquehanna avenue, \$80,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, J. Sullivan & Sons, 902 Montgomery avenue. Brick and concrete, 5 stories, 50x208 feet. Plans in progress.

Synagogue, 322-24-26 Bainbridge street. Architect, F. N. Greisler, 412 South Fifth street. Congregation Ohav Chesed Anahe Saval, on premises. Brick, 2 stories, 40x100 feet, slag roof, steam heating, electric lighting, metal ceilings, metal sash and frames. Plans in progress.

Shelter Sheds and Tunnel, Logan, Philadelphia. Architect, W. Hunter, Twelfth and Market streets. Owners, Philadelphia and Reading Railroad Company, Reading Terminal. Concrete and steel, tile and slate roof, electric lighting, waterproofing. Owners have received bids.

Theatre and Stores, Fifty-second and Market streets. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Alpha Realty Company, care of architect. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting, metal lath, waterproofing. Architect has received bids.

Convent, Twenty-ninth and Dickinson streets. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, St. Gabriel's R. C. Church, on premises. Brick, stone, 2 stories, slate roof, hot water heat, electric light. Architects taking bids, due May 20th. J. McShain, 631 N. 7th street; W. J. McShane, 417 South Thirteenth street; M. L. Conneen Company, 2015 Cuthbert street; J. Myers & Sons Co., Witherspoon Building; Joseph Maguire, Wayne, Pa.; Monaghan & Losse, 214 South Twelfth street; Melody & Keating, Nailey Building; J. J. Murphy, 1139 South Wilton street; I. T. Shoemaker, 6910 Mower street, Germantown; H. E. Baton, Twelfth and Sansom streets, are figuring.

Office Building, 1520-22 Chestnut street. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, Estate of H. R. F. Baker, 421 Walnut street. Brick and stone, waterproof-

ing, metal frames and sash (steam heating and electric lighting reserved), consists of interior alteration and addition. Architect has received bids.

Residence (alt. and add.), Sixth and Pine streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Dr. N. Y. Belber, on premises. Brick and plaster, 3 stories, 20x27 feet, slag and tile roof, electric lighting (electric lighting reserved), hardwood floors. Architects taking bids, due May 23rd. H. E. Grau Company, 1707 Sansom street; Lam Building Company, 1001 Wood street; Fefer & Co., 613 North Thirty-ninth street; Loos & Dothard, 1438 South Penn Square; J. Rose & Sons, 5221 Brown street, are figuring.

Twin Residences (5), Chestnut Hill, Philadelphia. Architect, H. L. Reinhold, Jr., 1309 Walnut street. Owner, W. J. York, South Penn Square Building. Brick, stone and plaster, 2½ stories, 16x45 feet, shingle roof, electric lighting, hot air heating, hardwood floors. Plans in progress. Owner will take bids.

Club House, 1616 Master street. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Young Men's Hebrew Association, care of Morris Wolf, secretary. Brick, terra cotta, fireproof, 3 stories, 60x160 feet. Plans in progress. Bids in about one month.

Parish House, Rising Sun Lane and Westmoreland street. Architect, private plans. Owner, Gethsemane M. E. Church, care of Dr. G. W. Henson, 3230 North Broad street. Brick and stone, 2½ stories, 26x38 feet, slate roof, steam heating, electric lighting. Builder, H. P. Schneider, 3713 Old York road, taking sub-bids.

Children's Ward (add.), Twenty-second and North College avenue. Architect, C. E. Schermerhorn, 430 Walnut street. Owners, Woman's Hospital of Philadelphia, care of Mrs. Anna L. Fogg, 1707 Arch street. Brick, hollow tile and steel, fireproof, 2 additional stories, slag roof, tile and terrazzo floors, concrete and hollow tile, fireproofing, metal frames and sash, safety treads, metal lath, metal weather strips (heating and electric work reserved). Architects taking bids, due May 26th. The following are figuring: F. T. Mercer, 1706 Delancey street; J. B. Floun-

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ders, 1329 Arch street; A. Whitehead, Inc., 1624 Latimer street; A. R. Raff, 1635 Thompson street; F. L. Hoover & Sons, 1023 Cherry street.

Manufacturing Building, Eleventh and Brandywine streets. Architects, Day & Klauder, 925 Chestnut street. Owners, Ed. J. Schoettle Company, 237 North Sixth street. Brick and concrete, 6 stories. Plans in progress.**Residences (80)**, Eighteenth and Porter streets, \$200,000. Architect, J. T. Windrim, Twelfth and Chestnut streets. Owner, Girard Estate, Lafayette Building. Brick, stone and plaster, 2 stories, 17x35 feet, tile, slag and slate, hardwood floors (central plant heating and lighting). Plans in progress. Owner will take sub-bids.**Picture Theatre**, 707 East Girard avenue. Architect, Walter T. Mayo, 1701 Chestnut street. Owners, W. Eckloed & Sons, 705 East Girard avenue. Brick and terra cotta, 1 story, 36x100 feet, slag roof, steam heating, electric lighting. Owners have received bids.**Store Building (alt and add.)**, 1527 Walnut street. Owners, Hughes & Muller, 1512 Walnut street. Architects, Guy King Company, 1513 Walnut street. Brick and stone, 3 stories. Plans in progress.**Sub-Station**, Germantown avenue and Moreland street. Architect, J. T. Windrim, Twelfth and Chestnut streets. Owners, Philadelphia Electric Company, Tenth and Chestnut streets. Brick and concrete, 1 story, 70x46 feet, slag roof, steam heating, waterproofing. Architect taking bids, due May 22nd. Charles Gilpin, Harrison Building; J. R. Wiggins, Heed Building; Pomeroy Construction Company, 1609 Ransstead street; A. R. Raff, 1635 Thompson street, are figuring.**Saloon and Residence (alt. and add.)**, Frankford avenue and Somerset street. Architects, Guy King Company, 1513 Walnut street. Owner, Jacob Stecker, on premises. Brick, 3 stories, 20x45 feet, slag roof, steam heating, electric lighting. Architects taking bids, due May 21st. A. Whitehead, Inc., 1624 Latimer street; A. P. Fraim, 319 Market street; William P. Yost, 2751 Frankford avenue; H. A. Bobert, 2620 East Cumberland street, are figuring.**Manufacturing Building (alt. and add.)**, Eleventh and Washington avenue. Architect, Werner Trumbauer, Crozer Building. Owners, John Wyeth & Bros., on premises. Brick and

concrete, consists of fences, walls and gates. Architect received bids May 19th.

Fire Tower, Thirty-third and Baring streets. Architects, Mellor & Meigs, 205 South Juniper street. Owners, Old Men's Home, on premises. Stone, 3 stories. Architects taking bids, due May 22nd. The following are figuring: H. L. Brown, 1714 Sansom street; George & Brost, 277 South Eleventh street; F. J. Treston, 2343 North Twenty-second street; William H. Carr, 6004 Germantown avenue.**Residence**, Sixty-fourth and Church road, \$18,000. Architect, Charles Barton Keen, Bailey Building. Owner, A. Helmar Englund, Seventeenth and Cambria streets. Brick, 2½ stories, 50x60 feet, tile roof, hardwood floors (heating and electric work reserved). Architect taking bids, due May 25th. The following are figuring: A. L. Fretz & Son, 1222 Chancellor street; John N. Gill Company, Heed Building; Milton W. Young, Overbrook, Philadelphia; J. Sims Wilson, 1125 Brown street; F. H. Mahan, Ardmore, Pa.; George L. Croll, Rosemont.**Residence (alt. and add.)**, Wyncote, Pa., \$20,000. Architects, Karcher & Smith, Crozer Building. Owner's name withheld. Stone, 2½ stories, tile roof, hot air heating, electric lighting. Architect taking bids, due May 25th. H. E. Grau Company, 1707 Sansom street; J. Sims Wilson, 1125 Brown street, Philadelphia; W. John Stevens, Wyncote, Pa.; William R. Dougherty, 1610 Sansom street; Graham-Campion Company, Heed Building; Jacob Myers & Sons Company, Witherspoon Building, Philadelphia; Specht & Sperry, Heed Building, Philadelphia, are figuring.**Maternity Ward**, Penn and Chew streets, Germantown. Architect, Louis C. Baker, 34 South Seventeenth street. Owners, Germantown Dispensary and Hospital, Penn and Chew streets. Brick, 1 story, 37x155 feet. Plans in progress.**Police and Fire Station**, Twenty-second and Hunting Park avenue. Architects, Simon & Bassett, 1112 Chestnut street. Owners, City of Philadelphia, City Hall. Brick and stone, 2 stories, slate roof, steam heat, electric lighting. Plans in progress.**Theatre**, Seventeenth and Venango streets. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Tioga Realty Company, care**UNITAS
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of A. M. Greenfield, manager, Real Estate Trust Building. Brick and terra cotta, 1 story, 118x118 feet, slag roof, steam heating, electric lighting. Architect taking bids, due May 27th. The following are figuring: Jas. G. Doak & Co., Crozer Building; F. E. Wallace, 1210 Sansom street; George Hogg, 1634 Sansom street; A. Whitehead, Inc., 1624 Latimer street; Lam Building Company, 1001 Wood street; Freund-Seidenbach, Bulletin Building; I. T. Shoemaker, Wissahickon avenue and Upsal street.

Hospital Building, Stenton and Evergreen avenues. Architects, Duhring, Okie & Zeigler, Bailey Building. Owners, Hospital for Consumptives, on premises. Hollow tile and plaster, 2 stories, 32x60 feet, slate roof (heating and lighting reserved). Architects taking bids, due May 25th. The following are figuring: F. B. Davis, 240 North Sixteenth street; W. J. Gruhler, 219 High street; Pringle Borthwick, 8018 Germantown avenue; F. Roe Searing, Perry Building; G. J. Dobbins, Graver's lane and Germantown avenue; Joel W. Hutton & Co., Harrison Building; Specht & Sperry, Heed Building.

Church (alt. and add.), Broad and Venango streets. Architects, Stearns & Casoor, Stephen Girard Building. Owners, St. Paul's Reformed Episcopal Church, on premises. Stone, 2 stories, 100x135 feet, slate roof (heating and lighting reserved). Architects taking bids, due May 25th. The following are figuring: H. E. Batton, Twelfth and Sansom streets; James G. Doak & Co., Crozer Building; William R. Dougherty, 1610 Sansom street; A. R. Raff, 1635 Thompson street; F. L. Hoover & Sons, 1023 Cherry street; Thomas C. Trafford, 1613 Sansom street.

Bank Building (alt. and add.), Broad and Diamond streets. Architect, Benj. R. Stevens, 1737 Filbert street. Owners, Broad Street Bank, care of Dr. Mayer, Broad and Cayuga streets. Brick, 3 stories, 18x20 feet, slag roof, steam heating, electric lighting, oak and composition floors. Architect taking bids, due May 21st. H. E. Batton, Twelfth and Sansom streets, and J. D. Fisher, 5758 Market street, are figuring.

Theatre and Stores, Fifty-second and Market streets. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Alpha Realty Company, care of architect. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting, metal lath, waterproofing. Architect taking revised bids, due May 23rd. (Note change in time.) Jas. G. Doak & Co., Crozer Building; Cramp & Co., Denckla Building; George Hogg, 1634 Sansom street; Lam Building Company, 1001 Wood street, are figuring.

Studio, 1743 North Twelfth street. Architect, A. E. Westover, Keith Building, Philadelphia. Owners, Tognarelli & Voigt, on premises. Brick and concrete, 3 stories, 25x52 feet, slag roof, metal frames and sash. Owner taking bids, due May 20th. Barclay White Company, Perry Building, and Berry-Goodwin Company, Drexel Building, are figuring.

Store and Hall, 209-11 South Fifty-second street. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owners, Arzumanian Brothers, 130 South Fifty-second street. Brick, 3 stories, 30x70 feet, slag roof, steam heating, electric lighting, metal lath. Owners taking bids, due May 22nd. P. Haibach Contracting Company, Twenty-sixth and Thompson streets, is figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Church (add.), Frankford avenue and Letterly street. Architects, Stearns & Castor, Stephen Girard Building. Owners, Frankford Avenue Baptist Church, care of C. P. Biggins, 1829 Harlan street. Stone and brick, 2 stories and basement, 38x65 feet, slag roof, steam heat, electric lighting, metal lath, waterproofing. Contract awarded to A. R. Raff, 1635 Thompson street.

Factory and 17 Stores, northwest corner Broad and South streets, \$100,000. Architects, Sauer & Hahn, 1114 Chestnut street. Owners, R. & F. P. Jacobs, 1427 Catherine street. Brick, steel and concrete, 3 stories, 60x198 feet, slag roof, steam heating, electric lighting, waterproofing, metal sash and frames, steel rolling shutters, safety treads,

vault lights, elevators. Contract awarded to Cramp & Co., Denckla Building.

School and Synagogue, Church lane and Chew street, Germantown, \$28,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Jewish Foster Home, on premises. Brick, terra cotta, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Contract awarded to Freund-Seidenbach Company, Bulletin Building.

Paper Mill (alt. and add.), Manayunk, Philadelphia. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Martin & William H. Nixon Paper Company, Nixon and Umbria streets, Manayunk. Brick and reinforced concrete, 1 story, 100x125 feet, slag roof, metal frames and sash (heat-

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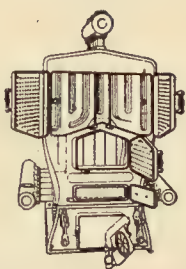
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ing and electric work reserved). Contract awarded to Barclay White Company, Perry Building.

Factory, Second and Lippincott streets. Engineer, W. E. S. Dyer, Land Title Building. Owners, Joseph R. Foster & Sons, on premises. Brick, 4 stories, 57x83 feet, slag roof, steel frames and sash (heating and electric work reserved). Contract awarded to James G. Doak & Co., Crozer Building.

Picture Theatre, 2907 North Fifth street. Architect, F. N. Greisler, 412 South Fifth street. Owners, Levick & Waldo, 1829 South Seventh street. Brick, 1 story, 45x100 feet, slag roof, electric light, steam heat. Contract awarded to P. Savar, 718 Snyder avenue.

Club House, South Quince street, Philadelphia. Architect, Building Committee, C. Zantzing, chairman, Fifteenth and Walnut streets. Owners, T-Square Club, 1204 Chancellor street. Brick, 3 stories, 33x60 feet, slate roof (heat and light reserved). Contract awarded to Smith-Hardican Company, 1606 Cherry street.

Dairy Building, Sixteenth and Courtland streets. Architect, Oliver R. Parry, 1727 Chestnut street. Owners, Stenton Park Dairies, on premises. Brick, 2 stories, 34x25 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to John W. DeFrehn, 4224 North Sydenham street.

Chapel and Convent, Twenty-second and Green streets. Architect, Paul Monaghan, Drexel Building. Owners, Sisters of Perpetual Adoration, care of architect. Stone, 1 and 3 stories, 41x129 feet, slate roof, steam heat-

ing, electric lighting. Contract awarded to Melody & Keating, Bailey Building.

Post Office, Seventy-third and Woodland avenue, \$10,000. Architect, H. M. Pedrick, Darby, Pa. Owner, T. F. Dempsey, 7223 Woodland avenue. Brick and stone, 2 stories, 41x102 feet, slag roof, hot water heating, electric lighting, oak floors. Contract awarded to W. Beaumont, Stephen Girard Building.

Club (alt. and add.), Old York road, Philadelphia. Architect, Oliver R. Parry, 1727 Chestnut street, Philadelphia. Owners, Old York Road Country Club, on premises. Frame, 2 stories, slate roof, steam heating, electric lighting, hardwood floors. Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Residence, Washington lane and Sullivan streets. Architects, Duhring, Okie & Zeigler, Baily Building. Owner, Mrs. J. C. Smith, 3114 Midvale avenue. Stone, 2½ stories, 35x57 feet, shingle roof, hot water heating, electric lighting, oak floors. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Germantown.

Store (alt. and add.), Thirty-ninth and Market streets. Architect, M. H. Dickinson, Weightman Building. Owners, Philadelphia Trust and Safe Deposit Company, 413 Chestnut street. Brick, 1 story, slag roof, electric lighting, new bulk windows. Contract awarded to F. G. Myhlertz, 1737 Filbert street.

Church (remodeling), Lehigh avenue and B street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Visitation R. C. Church, on premises. Stone, 1 story, consists of new front. Contract awarded to D. W. O'Dea, 5219 North Fifth street.

PENNSYLVANIA Construction News

Post Office, Bryn Mawr, Pa. Architect, E. A. Yeo, Stephen Girard Building, Philadelphia. Owners, Bryn Mawr National Bank, Bryn Mawr, Pa. Lessee, U. S. Government, Washington, D. C. Brick, 2 stories. Plans in progress.

Sunday School, Cynwyd, Pa., \$20,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Presbyterian Church of the Covenant, Cynwyd, Pa. Stone, 1 story and basement, 55x80 feet, slate roof (heat reserved), electric lighting. E. E. Hollenback, builder, Fifteenth and Race streets, Philadelphia, is taking sub-bids.

Field House, South Bethlehem, Pa., \$20,000. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Lehigh University, South Bethlehem, Pa. Brick, 2 stories, 41x75 feet, slag roof, steam heating, electric lighting. Architect has received revised bids.

School, Mountainville, Pa., \$20,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owners, Salisbury School District,

Barnard Scharles, secretary, Mountainville, Pa. Stone and brick, 2 stories, 78x78 feet, slag roof, steam heating, electric lighting, maple and concrete floors. Plans completed. Owners ready for bids.

Water Tank, Lima, Pa. Architect, private plans. Owners, Delaware County Commissioners, Orion L. Davis, Controller, Court House, Media, Pa. Owners received bids May 19th.

Bridge, Thornbury Township, Pa. Engineer, private plans. Owners, Delaware County Commissioners, care of Orion L. Davis, Controller, Court House, Media, Pa. Concrete. Owners taking bids, due May 28th, 10 A. M. Plans can be obtained from Commissioner's office.

Bridge, Darby Creek and Eighty-fourth street. Engineer, George S. Webster, City Hall, Philadelphia. Owners, Delaware County Commissioners, care of Orion L. Davis, Controller, Court House, Media, Pa., and City of Philadelphia, City Hall, Philadelphia. Con-

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crete. Owners taking bids, due May 28th, 11 A. M. Plans can be obtained from City Hall, Philadelphia, or Court House, Media, Pa.

Paving, Chester, Pa. Owners, City of Chester, Joseph H. Messick, Superintendent of Streets, City Hall, Chester, Pa. Consists of 30,000 square yards of paving. Owners taking bids, due May 25th, 10 A. M. Plans can be obtained from City Engineer's office.

Club House, Chester, Pa., \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Upland Lodge, No. 253 Odd Fellows, Chester, Pa. Stone and terra cotta, 3 stories, 50x110 feet, slag roof, steam heating gas and electric lighting, tile work. Plans in progress. Architect will soon take bids.

Store and Business Building (remodeling), Kutztown, Pa. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, M. Wartenluft, Kutztown, Pa. Brick, 3 stories, consists of new fronts and interior alterations, electric lighting. Plans in progress.

Hotel (alt. and add.), Lancaster, Pa., \$4,500. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, W. A. Buckius, 201 West Orange street, Lancaster, Pa. Brick, 1 story, 40x40 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Stores and Apartments (alt. and add.), Allentown, Pa., \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, Samuel Perkin, 128 North Sixth street, Allentown, Pa. Brick, 3 stories, 30x75 feet, slag roof, steam heating, gas and electric lighting. Owner taking bids.

Residence, Allentown, Pa., \$10,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, J. H. Feldhege, Allentown, Pa. Hollow tile and stucco, 2 stories, 41x32 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Owner sub-letting all contracts.

Hotel and Cafe (alts.), Reading, Pa. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Bissinger's Cafe, Reading, Pa. Consists of general interior alterations for cafe and dining room, electric lighting, tile work, decorating bar fixtures. Plans in progress.

Residences (5), West Reading, Pa. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Frank & Paul Yocum, Reading, Pa. Brick, 2½ stories, slate roof, hot air heating, gas and electric lighting. Architect ready for bids.

Residence, Shillington, Pa. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owner's name withheld. Brick, 2½ stories, 30x32 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Mining Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, Pennsylvania State College, State College, Pa. Brick and terra cotta, fireproof, 3 stories, 120x100 feet, slag roof and slate roof, electric lighting. Architects taking bids, due May 28th. Plans may be obtained from architects upon deposit of \$2.50.

Office Building and Freight Sheds, Allegheny, Pa. Architect, Mr. Devlin. Engineer, Maintenance of Ways, Broad Street Station. Owners, Pennsylvania Railroad Company, Broad Street Station. Brick steel and concrete, 1 and 3 stories, 41x128 feet and 128x893 feet, slag roof (heating and lighting reserved), (elevators reserved), waterproofing, enameled glass brick, steel rolling shutters, metal frames and sash. Owners taking bids, due June 10th. J. E. & A. L. Pennock, Land Title Building; Irwin & Leighton, 126 North Twelfth street; Charles Gilpin, Harrison Building; Brann & Stuart Company, Commercial Trust Building; James McGraw Company, Commercial Trust Building, all of Philadelphia, are figuring.

Factory, Media, Pa. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, George Allen & Sons, Media, Pa. Brick and concrete, 2 stories, 48x90 feet, slag roof, electric lighting. Architect taking bids.

High School, Meadville, Pa. Architect, W. L. Blithe, 608 Chestnut street, Philadelphia. Owners, Meadville School Board, W. H. Gaskill, secretary. Brick, 2 stories, 72x188 feet, slate roof, plenum system of heating, electric lighting. Owners ready for bids.

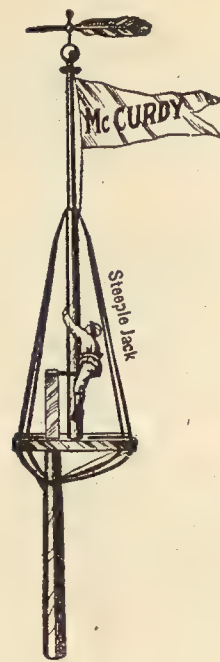
Weave Shed, Hazleton, Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Duplan Silk Company, Hazleton, Pa. Brick, 1 story, 90x198 feet, slag roof, electric lighting. Architect taking bids, due May 25th. F. Y. Fredericks & Sons, Hazleton, Pa.; V. L. Campbell, Hazleton, Pa.; Fink & Seidle, Reading, Pa.; United Fireproofing Company, 1133 Broadway, New York City; Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Turner Concrete Steel Company, 1713 Sansom street, Philadelphia, are figuring.

Club House, New Castle, Pa. Architect, Frank H. Foulk, New Castle, Pa. Owners, B. P. O. E., New Castle Lodge, No. 69, New Castle, Pa. Brick, 3 stories, 74x160 feet, tile roof, hot water heating, electric lighting, composition and oak floors, concrete fireproof floors, sheet steel and expanded metal lath, dumb waiters, tile work. Architect taking bids, due May 23rd. James H. Wells, Heed Building, Philadelphia, is figuring.

High School, near Newtown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owners, Newtown and Marple Townships School Board, Newtown and Marple, Pa. Brick, 2 stories, 65x125 feet, slate roof, heating undecided, electric lighting. Plans in progress.

Residence (alt. and add.), Ardmore, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, James Croskey Brown, Ardmore, Pa. Stone, 2½ stories, slate roof (heat and lighting reserved), composition floors. Architects received bids May 19th.

Fire House and Hall (add.), Colwyn, Pa., \$5,000. Architect, H. M. Pedricks, Post Office Building, Darby, Pa. Owners, Borough of Colwyn, Delaware County, Pa. Brick, 3 stories, 25x85 feet, slag roof, hot water heating, electric lighting, asbestos shingle roof. Revised plans in progress.



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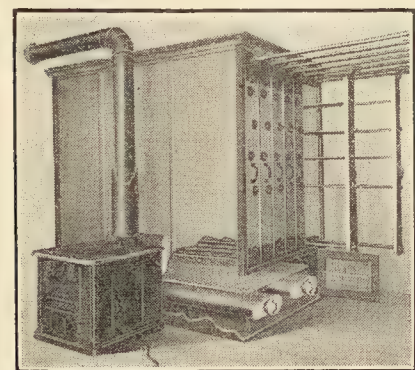
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Church and Sunday School (alt. and add.), Tamaqua, Pa., \$1g,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, St. John's Reformed Church, Rev. J. M. Mengle, Tamaqua, Pa. Bick, 2 stories, 45x100 feet, slate roof, steam heating, electric lighting. Architect taking bids, due May 20th. The following are figuring: Louis Riebe, Lansford, Pa., and J. A. Schilbe, A. L. Graff, D. B. Mullen, Edward E. Weaver & Co., of Tamaqua, Pa.

Church, New Cumberland, Pa., \$15,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Church of God, C. H. Cline, secretary, New Cumberland, Pa. Brick, stone trimmings, 1½ stories, 50x90 feet, asbestos slate roof, vapor heating, elec-

tric lighting. Owners received bids May 18th.

Residence, Wyomissing, Pa., \$5,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Mrs. Homan, 212 South Sixth street, Reading, Pa. Brick, 2½ stories, 28x34 feet, tin roof, hot air heating, gas and electric lighting. Plans in progress.

Garage, Church and Greenwich streets, Reading, Pa., \$12,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner's name withheld. Reinforced concrete, 2 stories, 53x105 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath, metal frames and sash, elevator. Plans in progress.

Candy Factory (add.), Franklin street, Reading, Pa. Architect, George L. Gerhard, 519 Penn street, Reading, Pa. Owners, W. G. Hollis & Co., 623 Franklin street, Reading, Pa. Brick, stone trimmings, 4½ stories, 22x60 feet, slag roof, steam heating, electric lighting. Architect taking sub-bids.

Lodge Building, Fourth and Court streets, Reading, Pa., \$10,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, Knights of Malta, Henry S. Erb, chairman Building Committee, on premises. Frame and steel, 1 story, 42x63 feet, slag roof, steam heating, gas and electric lighting. Architect taking bids. The following are figuring: George A. Koch, William Schaffer, Daniel H. Hunter, Fink & Seidle, Charles Matz, all of Reading, Pa.

Hospital (alt. and add.), Reading, Pa., \$25,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Homoeopathic Hospital, Reading, Pa. Brick, 3 stories, slate roof, steam heating, electric lighting, Holland glass wainscoting, tile work, laundry machinery. Architect taking bids. The following are figuring: Fink & Seidle, Daniel H. Hunter, L. H. Focht & Son, all of Reading, Pa.

School Building, Mohnton, Pa., \$21,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owners, Board of Education, Mohnton, Pa. Brick, stone trimmings, 2½ stories, 84x70 feet, slag roof, steam heating, gas and electric lighting. Owners received bids May 19th.

Residence, Hamburg, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, William B. Burkey, Hamburg, Pa. Stone, 2½ stories, 42x32 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Architects taking bids, due May 23rd. Charles Schlegel, Mt. Penn, Pa., is figuring.

Garage and Greenhouse, Fort Washington, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, G. C. Nuemmerle, Fort Washington, Pa. Brick, 1 story, 24x32 feet, slate roof, electric lighting. Architect taking bids, due May 26th. J. B. Flounders, 1345 Arch street, Philadelphia; J. Stackhouse, Ambler, Pa.; G. Frankenfield, Ambler, Pa.; Burd P. Evans & Co., Thirteenth

and Wallace streets, Philadelphia; E. James, Fort Washington, Pa., are figuring.

Residence and Garage, Ardmore, Pa. Architects, Thomas & Churchman, 130 South Fifteenth street, Philadelphia. Owner, Charles Carver, Jr., Stephen Girard Building, Philadelphia. Stone and plaster, 2½ stories, 43x40 feet, slate roof (heating reserved), electric lighting. Revised plans in progress.

Hotel, Moore, Pa. Architects, Karcher & Smith, Crozer Building, Philadelphia. Owner, David McClure, Moore, Pa. Hollow tile, plaster and brick, 3 stories, 60x80 feet, shingle roof, hot water heating, electric lighting. Architect taking bids, due May 22nd. I. A. Dunkelberger, 71 East Herman street, Germantown, Philadelphia; A. C. Lewis, Lansdowne, Pa., and William Ward, H. L. Morris, Nolan Brothers, all of Chester, Pa., are figuring.

Mining Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, State College of Pennsylvania, State College, Pa. Brick and stone, 3 stories, 76x135 feet, slate roof (heating and lighting reserved), waterproofing, metal lath, metal frames and sash. Architect taking bids, due May 28th. F. Roe Searing, Perry Building; H. L. Brown, 1714 Sansom street; R. C. Ballinger Company, 218 North Thirteenth street; Irwin & Leighton, 126 North Twelfth street; William R. Dougherty, 1610 Sansom street, all of Philadelphia, are figuring.

Residence, Lansdowne, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, A. T. Hill, Lansdowne, Pa. Stone and plaster, 2½ stories, 29x41 feet, shingle roof, steam heating, electric lighting, hardwood floors. Plans completed. Architect ready for bids.

Residences (2), Haverford, Pa., \$6,000 each. Architects, Wilson Eyre & McIlvain, 1003 Spruce street, Philadelphia. Owners, Fox & Williams, care of architects. Stone and shingles, 2½ stories, shingle roof, hot air heating, electric lighting. Architects taking bids. Graham-Campion Company, Heed Building, and George & Borst, 277 South Eleventh street, all of Philadelphia, are figuring.

Residence, Haverford, Pa., \$25,000. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Charles R. Wentz, Land Title Building, Philadelphia. Stone, 2½ stories, 68x35 feet, wing 29x30 feet, shingle roof, hot water heating, electric lighting, white oak floors. Revised plans in progress.

Hotel, Johnstown, Pa. Architects, Janssen & Abbott, Pittsburgh, Pa. Owners, Johnstown Hotel Company, Johnstown, Pa. Brick, fireproof, 8 stories, 66x150 feet, slag and tile roof, steam heating, electric lighting, tile floors, elevators, waterproofing, metal lath, kalamein doors, metal frames, sash and casements. Architects taking bids, due May 28th. James G. Doak & Co., Crozer Building, Philadelphia, are figuring.

cotta, concrete floors, 3 stories, 60x180 feet, slag roof, steam and hot air heating, gas and electric lighting, tile work. Contract awarded to Jacob A. Nagle, 117 South Twelfth street, Allentown.

Art Gallery, Chester, Pa., \$50,000. Architects, Brazer & Robb, 1133 Broadway, New York City. Owner, Estate of Alfred C. Deshong, care of trustee, Clarence Deshong, James A. G. Campbell and Judge William B. Broomall, Chester, Pa. Stone and marble, 1 story, 50x90 feet, steam heating, electric lighting. Contract awarded to Frank N. Goble, No. 1 East Forty-second street, New York City.

School, Cynwyd, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Lower Merion School Board, care of W. J. Byrnes, secretary, Ardmore, Pa. Brick and stone, fireproof, 2 stories, 46x130 feet, slag roof, metal lath. Contract awarded to James H. Wells, Heed Building, Philadelphia.

Pumping Station, Rington, Pa., \$10,000. Architect, Isaac Hathaway Francis, Commonwealth Building, Philadelphia. Owners, Girard Water Company, Rington, Pa. Stone, 2 stories, 32x70 feet, slate and slag roof, steam heat, electric lighting, metal sash. Contract awarded to Pomeroy Construction Company, 1609 Ranstead street, Philadelphia.

School (add.), Chester, Pa., \$6,655. Architect, private plans. Owners, Board of Education, Chester, Pa. Brick, 2 stories, slate roof (heating reserved). Contract awarded to Amos P. Sheaff, 302 East Fifth street, Chester, Pa.

Log Cabin, Haverford, Pa. Architects, Boyd, Coneys & Abell, Fifteenth and Walnut streets, Philadelphia. Owners, Merion Cricket Club, Golf Association, Haverford, Pa. One story, 26x40 feet, shingle roof. Contract awarded to W. D. Smedley, Narberth, Pa.

Boat House, Haverford, Pa. Architects, Thomas & Churchman, 1309 Walnut street, Philadelphia. Owner, Howard Longstreth, Haverford, Pa. Frame, 2 stories, 19x29 feet, shingle roof. Contract awarded to M. S. Lynch, Heed Building, Philadelphia.

Relief Building, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Reading Bayonne Steel Casting Company, Reading, Pa. Brick, 3 stories, 38x53 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to George Koch, 1024 Robeson street, Reading.

Residence, Wyomissing, Pa., \$7,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Ellsworth Hoffman, Wyomissing, Pa. Brick, 2½ stories, 28x36 feet, slate roof, hot water heating, gas and electric lighting, tile work. Contract awarded to J. Giltner, Tamaqua, Pa.

Residence, Reading, Pa., \$5,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Mrs. S. E. Slegel, 1137 Franklin street, Reading, Pa. Stone, 2 stories, 32x28 feet, shingle roof, gas and electric lighting, hardwood floors, tile work. Contract awarded to Haupt & Rentz, West Reading, Pa.

Residence, 1034 Franklin street, Reading, Pa., \$8,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, George W. Flatt, Reading, Pa. Brick, 3 stories, 80x20 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Ed. Seyfret, Reading, Pa.

Residence, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, E. F. Hendricks, Reading, Pa. Brick and stucco, 2½ stories, 36x33 feet, asbestos shingle roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Charles Schlegel, Mt. Penn, Pa.

School, Palmyra, Pa., \$70,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owners,

PENNSYLVANIA

Contracts Awarded

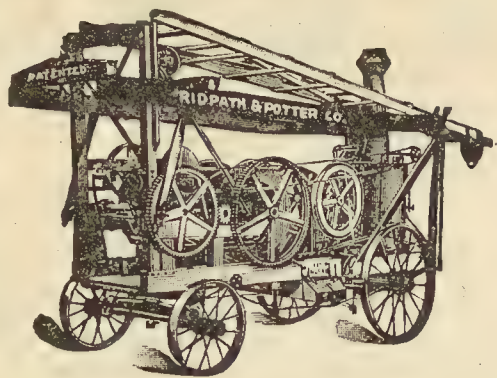
Church, Palmerton, Pa., \$5,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owners, Holy Trinity Lutheran Church, Palmerton, Pa. Local stone and concrete, 1 story, 39x70 feet, Genasco roofing, hot air heating, electric lighting. Contract awarded to D. M. Reitz, Palmerton, Pa.

Publishing Plant, Pottsville, Pa., \$7,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owners, Town and Country Publishing Company, 398 Fifth avenue, New York City. Brick, 2½ stories, 30x30 feet, slag roof, steam heating, electric

lighting. Contract awarded to Charles Hillegas, Pottsville, Pa.

Store and Picture Theatre, Palmerton, Pa., \$15,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, L. Wolensky, Palmerton, Pa. Brick and terra cotta, 2 stories, 34x180 feet, slag roof, steam heating, electric lighting, tile work. Contract awarded to S. Reitz, Palmerton, Pa.

School, Northampton, Pa., \$40,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owners, Board of Education, Northampton, Pa. Brick and terra



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Board of Education of Palmyra School District, M. R. Fisher, secretary, Palmyra, Pa. Brick, stone trimmings, 123x164 feet, slag roof, metal lath, steam heating, electric lighting. Contract awarded to C. W. Strayer & Co., Union Trust Building, Harrisburg, Pa.

Bank and Post Office (add.), Womelsdorf, Pa., \$5,000. Architect, H. J. Maurer, 33 North Sixth street, Reading, Pa. Owners, Womelsdorf National Bank, Womelsdorf, Pa. Brick, limestone trimmings, 1½ stories, tin roof, hot

water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to George Koch, 1024 Robeson street, Reading, Pa.

Residence, Lebanon, Pa., \$4,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Captain H. D. Case, Lebanon, Pa. Frame and stucco, 2½ stories, 32x25 feet, shingle roof, vapor heating, gas and electric lighting. Contract awarded to Harry Buffamoyer, Moon Building, Lebanon, Pa.

NEW JERSEY Construction News

Bungalow, Ventnor, N. J., \$7,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner's name withheld. Brick and frame, 2 stories, 40x30 feet, slate roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

Pavilion and Comfort Station, Ventnor, N. J., \$15,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owners, City of Ventnor, N. J. Stucco, 1 story, 60x70 feet, tile roof, electric lighting, pressed cement tile floors. Owners taking bids, due May 20th, 8 P. M.

Synagogue, 2016 Pacific avenue, Atlantic City, N. J., \$30,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City, N. J. Owners, Rodef Sholem Congregation, Rev. S. D. Rosenfield, Texas and Atlantic avenues, Atlantic City, N. J. Enameled brick, 3 stories, 50x135 feet, asphalt roof, hot water or steam heating, gas and electric lighting, tile and marble floors, art glass, metal lath. Owners are sub-letting all contracts.

Parish House, Woodbury, N. J. Architect, J. Franklin Stuckert, 112 South Forty-third street. Owners, Christ Church, Woodbury, N. J. Frame and plaster, 2 stories and basement, 56x58 feet, slate and slag roof (heat and lighting reserved), dampproofing. Architect taking bids, due May 18th. F. L. Hoover & Sons, 1023 Cherry street; A. Bottoms & Sons Co., 41 South Fifteenth street; George L. Sipps, 912 Locust street, Philadelphia; Charles Thurlow, Mantua, N. J.; Thomas Allen, W. D. Fletcher, J. B. Best, all of Woodbury, N. J., are figuring.

School (add.), Titusville, N. J., \$2,500. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Board of Education of Hopewell Township. Stone and frame, 1 story, 25x45 feet, slate roof, hot water or vapor heating. Plans in progress.

Hospital, Millville, N. J. Architects, Guy King & Co., 1513 Walnut street, Philadelphia. Owners, Millville Hospital, Millville, N. J. Brick, hollow tile and stucco, 2½ stories, 70x36 feet, Chapman slate and canvas roof, electric lighting, Webster system of heating, metal lath (screens, weather strips, dumb waiter and elevator, garbage incinerator and vacuum cleaning plant reserved). Owners taking bids, due June 1st. James H. Wells, Heed Building, Philadelphia, is figuring.

Lodge Building, Trenton, N. J., \$70,000.

Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, Loyal Order of Moose, Trenton, N. J. Brick, stone and terra cotta, 4½ stories, 81x137 feet, slag roof, gas and electric lighting, hardwood and composition floors, metal lath, steam heating. Architects taking bids, due May 27th. The following are figuring: F. W. Van Loon, Denckla Building, Philadelphia; Mathews Construction Company, Princeton, N. J.; G. B. Henrie, Scott & Day, C. W. Kafer, H. Scarborough, L. C. Smith, S. W. Mather & Sons, T. F. Donigan, A. W. Chapman, Burton & Burton, I. Harper Clayton, all of Trenton, N. J.

Hotel, Atlantic City, N. J., \$2,000,000. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, Hotel Traymore, Atlantic City, N. J. Brick and terra cotta, fireproof, 16 stories. Plans in progress.

Residence, Trenton, N. J., \$8,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. G. Titus, 634 West State street, Trenton, N. J. Brick and stone, 2½ stories, 30x43 feet, slate roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Plans in progress. Architects will take bids in two weeks.

Residences (7), Trenton, N. J., \$14,000. Architect, W. F. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, Herman Salb, 550 Lamberton street, Trenton, N. J. Brick, 3 stories, 14x48 feet each, slate and slag roof, heating undecided, gas and electric lighting. Plans in progress.

Orphan Asylum, Hopewell, N. J., \$50,000. Architect, W. F. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, St. Michael's Orphanage, care of Right Rev. Bishop James A. McFaul, 153 North Warren street, Trenton, N. J. Brick, concrete and terra cotta, 4 stories, 50x96 feet, slag roof, steam heating, hollow tile fireproofing, electric lighting, metal lath. Revised plans in progress.

Bungalow, Cape May, N. J. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Frank S. Shepard, Cape May, N. J. Frame and concrete, 1½ stories, 32x37 feet, shingle roof, hot air heating, gas and electric lighting. Owner taking bids.

Nurses' Home, Hamilton Township, N. J.,

\$7,500. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, City of Trenton, Department of Public Affairs, Trenton, N. J. Brick and stone, 2 stories, 50x30 feet, slate roof, steam heating, electric lighting, tile work. Architects taking bids, due May 27th. The following are figuring: C. Poinsett, Samuel Wiley, Ed. LaRue, Samuel Hilton, D. Teitz & Sons, W. J. and J. H. Morris, Samuel W. Mather & Sons, Samuel Levy & Sons, Burton & Burton, all of Trenton, N. J.

Junior High School, Trenton, N. J. Architect, W. A. Poland, Trenton, N. J. Owners, Board of Education, Trenton, N. J. Brick, stone and steel, fireproof. Plans about to be started.

Factory (add.), Trenton, N. J., \$4,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, John Williams Manufacturing Company, Twelfth and Carpenter streets, Philadelphia. Brick, concrete and steel, new fire tower, 3 stories, 10x60 feet, slag roof, electric lighting, concrete floors, metal frames and sash. Plans in progress. Architects will take bids in one week.

Factory, Camden, N. J. Architects, Borzner & Wood, 721 Walnut street, Philadelphia. Owner, T. S. Pancoast, Third and Market streets, Camden, N. J. Brick, 2 stories, 30x45 feet, slag roof, electric lighting. Plans in progress. Owner will take bids.

New Jersey

Contracts Awarded

Church (alt. and add.), Haddonfield, N. J. Architect, W. C. Pritchett, 416 Walnut street, Philadelphia. Owners, Grace Episcopal Church, Haddonfield, N. J. Stone and brick, 2 stories, 40x86 feet, slate roof, electric light, extension to heating plans. Contract awarded to Smith-Hardican Company, 1606 Cherry street, Philadelphia.

School, Pedricktown, N. J., \$20,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Oldsman Township Board of Education, Pedricktown, N. J. Brick and plaster, 2 stories, 71x59 feet, slate roof, electric light. Contract awarded to W. Titus, Paulsboro, N. J.

Miscellaneous Construction News

Protectory, Reybold, Del., \$10,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, St. James' Protectory, Reybold, Del. Brick, 3 stories, 30x80 feet, slate roof, steam heating, electric lighting. Plans in progress. Architect will take bids in three weeks.

Parochial School (alt. and add.), Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Sacred Heart School, Tenth and Monroe streets, Wilmington, Del. Brick, 2 stories, 70x80 feet, gas and electric lighting, tile work and metal ceilings. Plans in progress. Architect will take bids in ten days.

Altar, Delaware City, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, St. Paul's R. C. Church, Delaware City, Del. Marble and imported stone, 14x20 feet. Plans in progress. Architect will take bids in one week.

Residence, Darien, Conn. Architect, Donn Barber, 101 Park avenue, New York City. Owner, Dr. Charles B. Keeler, Darien, Conn. Brick and stucco, 2½ stories, 92x55 feet, wood or asbestos shingle roof, waterproofing,

wire cloth, tile and mosaic work, maple floors, electric lighting (heating direct-indirect steam, separate bids). Architect taking bids, due May 25th. Joel W. Hutton & Co., Harrison Building, Philadelphia, are figuring.

Shirt Factory (add.), Buffalo, N. Y., \$60,000. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Buffalo Shirt Company, Buffalo, N. Y. Reinforced concrete, 3 stories, slag roof, steam heating, electric lighting. Drying and laundry equipment. Plans in progress. Bids in one month.

Factory Building, Jackson avenue, Long Island City, N. Y., \$250,000. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, National Casket Company, 48 Great Jones street, New York City. Brick, steel and concrete, 1, 2 and 3 stories, slag roof, steam heating, electric lighting, metal frames and sash, rolling steel shutters, metal doors and trimmings, steel windows, metal lath, dampproofing, waterproofing. Architects taking bids, due May 27th. The following are figuring: Turner Construction Company, 11 Broadway, New York City; Amsterdam Building Company, 43 West Twenty-seventh street; Cramp & Co., 25 East Twenty-sixth street; F. Ley & Co., 30 East Forty-second street; National Fireproofing Company, Twenty-third and Broadway; Ruggles & Robinson Company, 331 Madison avenue, all of New York City; American Concrete Steel Company, Newark, N. J.; H. Wales-Lines Company, Meriden, Conn.

Residence, Wilmington, Del., \$28,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Russell H. Dunham, 1503 Franklin street, Wilmington, Del. Stone, 3 stories, 40x85 feet, slate roof, vapor vacuum heating, electric lighting, hardwood floors. Architect taking revised bids, due

May 20th. The following are figuring: Graham-Campion Company, Heed Building, Philadelphia; W. D. Haddock & Co., 804 Orange street, and W. Howard May, 1014 Rodney street, both of Wilmington, Del.

Almshouse, Eaton, N. Y. Architect, I. V. Van Duzer, Cazenovia, N. Y. Owners, Madison County Almshouse. Hollow tile, 2 stories, 74x48 feet, 48x66 feet and 113x41 feet, Bangor or Lehigh slate roof, steam heating, electric lighting, reinforced concrete floors, expanded metal lath and partitions, waterproofing. Owners taking bids, due May 29th. James H. Wells, Heed Building, Philadelphia, is figuring. Plans can be obtained from architect, \$10.00 deposit.

Miscellaneous Contracts Awarded

Residence, Twenty-eighth and Broome streets, Wilmington, Del., \$6,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Mrs. Anna Hoehm, 35 East Seventh street, Wilmington, Del. Stone, 2½ stories, 30x40 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to Union Stone Company, Wilmington, Del.

Residence, Wilmington, Del., \$20,000. Architect, Charles Barton Keen, Bailey Building. Owner, William C. Spruance, Jr., 1616 Broome street, Wilmington, Del. Brick, 2½ stories, 28x51 feet, wing 18x30 feet, slate roof, vapor heating, hardwood floors, electric lighting. Contract awarded to H. L. Brown, 1714 Sansom street, Philadelphia.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

C. C. Cann (O), 1654 Dyre street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x44 feet, Frankford avenue and Wells street.

Levick & Waldo (O), 1829 South Seventh street. P. Savar (C), 718 Snyder avenue. Cost, \$10,900. Theatre, brick, 1 story, 45x100 feet, 2907 North Fifth street.

Louis Shpeen (O), 7811 Bartram avenue. Cost, \$2,200. One dwelling, brick, 2 stories, 16x38, 7809 Bartram avenue.

George Shissler (O), 2300 South Eleventh street. Cost, \$1,800. Dwelling, brick, 2 stories, 15x37 feet, Tenth and Shunk streets. Cost, \$41,600. Twenty-six dwellings. Cost, \$1,800. Store and dwelling.

A. Yocum (O), 2437 West Allegheny avenue. Cost, \$1,800. Dwelling, brick, 2 stories, 24x28 feet, Hilton and Fox streets. Cost, \$1,200. Dwelling. Cost, \$4,800. Four dwellings. Cost, \$1,500. Residence, alteration.

Alexander Shore (O), 1128 Bainbridge street. A. P. Sucker (C), 5146 Pulaski avenue. Cost, \$4,300. Warehouse, brick, 3 stories, 16x85 feet, 703 South Eleventh street.

Department of Fisheries (O), Harrisburg, Pa. P. J. Hurley (C), 1233 Cherry street. Cost, \$8,300. Hatchery, brick, 2 stories, 49x30 feet, Holmesburg, Pa.

Max Shubert (O), Hope and Tioga streets. M. Morrison (C), 2322 North Howard street. Cost, \$2,750. Store and dwelling, brick, 2 stories, 18x42 feet, Hope and Tioga streets.

J. M. Kennedy, Jr. (O), Tenth and Chestnut streets. Kennett Wilson (C), 3108 Boud-

not street. Cost, \$6,000. Three dwellings, brick, 2 stories, 16x33 feet, B and Ontario streets. Cost, \$3,500. Store and dwelling.

C. Haggerty (O), 1613 Warmath street. B. Isenberg (C), 3872 Poplar street. Cost, \$7,000. Five dwellings, brick, 2 stories, 14x65 feet, Faust and Edmund streets. Cost, \$1,550. One dwelling.

Schreiber & Stanhauser (O), 5224 North Fifth street. Cost, \$5,600. Two dwellings, brick, 2 stories, 16x51 feet, 5400 North Fairhill street.

P. Yoskins (O), 7717 Brewster avenue. Cost, \$4,000. Two dwellings, brick, 2 stories, 15x34 feet, Seventy-eighth and Ewing streets.

R. Marden (O), Second street pike. M. Stevens (C), 912 Fanshaw street. Cost, \$4,800. Two dwellings, brick, 3 stories, 16x40 feet, Kerpin and Rising Sun lane.

Donato Buro (O), 809 South Eighth street. Cost, \$2,250. Dwelling, brick, 2 stories, 16x50 feet, Eighty-fourth and Holstein avenue.

G. W. Shisler (O), 2300 South Eighth street. Cost, \$1,800. One dwelling and store, brick, 2 stories, 15x37 feet, Tenth and Shunk streets. Cost, \$40,600. Twenty-six dwellings. Cost, \$1,800, store and dwelling.

B. C. Simon (O), Nineteenth and Passyunk avenue. H. F. Williams (C), 2334 South Twentieth street. Cost, \$60,000. Fifty dwellings, brick, 2 stories, 14x30 feet, Bonsall and Wolf streets. Cost, \$3,200. Two stores and dwellings. Cost, \$60,000. Fifty dwellings. Cost, \$3,200. Two stores and dwellings. Cost, \$41,400. Twenty-three dwellings. Cost,

\$2,000. Store and dwelling. Cost, \$41,400. Twenty-three dwellings. Cost, \$41,400. Twenty-three dwellings. Cost, \$6,000. Three stores and dwellings.

G. Schafer (O), 4830 Mervine street. Cost, \$2,000. Dwelling, brick, 2 stories, 16x48 feet, 4830 Mervine street.

S. H. Hall (O), Fifty-third and Lancaster avenue. J. F. Wolf (C), 620 North Fortieth street. Cost, \$3,000. Garage, brick, 2 stories, 18x21 feet, Fifty-third and Lancaster avenue.

S. Vile (O), Model Farm. R. R. Heath (C), Eighty-seventh and Ashwood avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 17x40 feet, Eighty-seventh and Crothers avenue.

Thomas Boyser (O), Frankford, Philadelphia. J. F. Davies (C), Heed Building. Cost, \$2,600. Residence, brick, 2 stories, 14x37 feet, Penn and Gillingham streets.

G. G. Geiker (O), 3637 North Sixteenth street. H. P. Schneider (C), 3713 York road. Cost, \$8,000. Four dwellings, brick, 2 stories, 15x30 feet, 3644 to 50 North Sydenham street.

Dr. George Woodward (O), North American Building. J. E. Walt (C), 204 East Willow Grove avenue. Cost, \$10,975. Dwelling, brick, 3 stories, 49x30 feet, St. Martins, Philadelphia.

Hugh Horan (O), Eighty-fifth and Guyer avenue. Cost, \$3,700. Two dwellings, brick, 2 stories, 16x38 feet, Eighty-fifth and Guyer avenue.

John Kelly (O), 706 South American street. P. J. Hurley (C), 1233 Cherry street. Cost, \$2,600. Dwelling, brick, 2 stories, 15x29 feet, 706 South American street.

E. Osborn (O), 5017 Willow street. G. R. Osborn (C), 5017 Willow street. Cost, \$6,500. Two dwellings, brick, 2 stories, 16x30 feet, Saul and Wakefield streets. Cost, \$6,500. Two dwellings.

Archbishop E. F. Prendergast (O), Eighteenth and Race streets. D. W. O'Dea (C), 549 North Fifth street. Cost, \$28,000. School, brick, 2 stories, 45x83 feet, 8500 Frankford avenue.

Seidman & Getz (O), 1312 North Sixth street. Cost, \$7,500. Three dwellings, brick, 2 stories, 15x30 feet, Christian and Frazier streets. Cost, \$10,000. Four dwellings. Cost, \$3,000. One dwelling. Cost, \$15,000. Six dwellings. Cost, \$3,000. One dwelling. Cost, \$3,000. One dwelling.

N. Litman (O), 2332 South Tenth street. Cost, \$7,500. Two stores and dwellings, brick, 3 stories, 15x30 feet, 1722 South Second street.

A. Dylwski (O), 4508 Mercer street. M. Pacan (C), 2573 Orthodox street. Cost, \$2,600. Two dwellings, brick, 2 stories, 14x30 feet, 4504 Mercer street.

A. C. Keenan, Jr., 1012 Dakota street. F. A. Havens Company (C), 845 North Nineteenth street. Cost, \$14,000. Manufacturing building, brick, 3 stories, 33x85 feet, 1012 Dakota street.

Pennsylvania Institution for Deaf and Dumb (O), Mt. Airy, Pa. William R. Dougherty (C), 1610 Sansom street. Cost, \$45,000. Hall, stone, 1 story, 75x127 feet, Mt. Airy, Pa.

Judge Audenreid (O), 6331 Lancaster avenue. William R. Dougherty (C), 1610 Sansom street. Cost, \$7,000. Dwelling, brick, 2 stories, 22x40 feet, 6331 Lancaster avenue.

Fox & Armstrong (O), 1308 South Sixteenth street. Cost, \$110,200. Twenty-nine dwellings, brick, 2 stories, 16x27 feet, Cobb's Creek Parkway.

J. N. Mitchell (O), Forty-sixth and Market streets. Cost, \$3,000. Dwelling, brick, 2 stories, 15x42 feet, Fifty-fourth and Cedar avenue. Cost, \$50,400. Twenty-one dwellings.

Archbishop E. F. Prendergast (O), Eighteenth and Race streets. William J. McShane (C), 417 South Thirteenth street. Cost, \$31,150. School, brick, 1 story, 68x125 feet, Twenty-eighth and Allegheny avenue.

Alterations and Additions

Joseph Davenport (O), Hermit lane. F. Seagill (C), Manayunk, Philadelphia. Cost, \$1,000. Shop, Hermit lane.

Fidelity Trust Company (O), 325 Chestnut street. H. B. Coyle Iron Works (C), 622 Filbert street. Cost, \$900. Apartment, 1926 Chestnut street.

J. A. Bader (O), Heed Building. Cost, \$1.00. Store, Germantown avenue and Tulpehocken street. Cost, \$9,000. Three dwellings and stores, Germantown avenue and Tulpehocken street.

McCray & Hunter (O), 3525 Germantown avenue. L. H. Losse (C), 214 South Twelfth street. Cost, \$7,700. Storage, brick, 3 stories, 50x96 feet, 3525 Germantown avenue.

Holy Trinity Church (O), Nineteenth and Walnut streets. J. Myers & Sons Co., (C), Witherspoon Building. Cost, \$3,500. Church, Nineteenth and Walnut streets.

E. H. Porch (O), 4100 Girard avenue. Cost, \$2,500. Dwelling, 4100 Girard avenue.

Bell Telephone Company (O), Thirteenth and Arch streets. F. W. Van Loon (C), Denckla Building. Cost, \$3,500. Office, Seventeenth and Poplar streets.

W. H. Trotter (O), Chestnut Hill, Pa. David McCork (C), Flourtown, Pa. Cost, \$2,250. Dwelling, Chestnut Hill, Philadelphia.

J. F. Balfour (O), 5855 Drexel road. M. W. Young (C), Overbrook, Pa. Cost, \$1,500. Dwelling, 5855 Drexel road.

St. Vincent's Home (O), Seventieth and Woodland avenue. J. McShain (C), 631

North Seventeenth street. Cost, \$4,575. Home, Seventieth and Woodland avenue.

J. Wolfe (O), 239 South Tenth street. H. C. Dahl (C), 231 South Eighth street. Cost, \$2,500. Store, 239 South Tenth street.

J. Behrend (O), 122 West Allen street. M. Schmidt (C), 1308 North Sixth street. Cost, \$2,500. Factory, 120 West Allen street.

L. Blumberg (O), 527 North Lawrence street. P. Rozensky (C), 519 North Philip street. Cost, \$1,800. Stable, 527 North Lawrence street.

H. J. Roberts (O), 137 Rowan street. J. H. Walker (C), 168 East Walnut lane. Cost, \$1,200. Dwelling, 137 Rowan street.

S. S. Logan (O), Chestnut Hill, Pa. F. Elvidge & Sons (C), 5522 Germantown avenue. Cost, \$3,200. Garage. Cost, \$1,500. Garage, Eighteenth and Armat streets.

G. Abram (O), Passaic, N. J. J. G. Miller (C), 2315 Clearfield street. Cost, \$2,000. Stable, 2216 North Twenty-seventh street.

C. Kelions (O), 5128 Thompson street. George Kessler Construction Company (C), Drexel Building. Cost, \$1,000. Stable, 5128 Thompson street.

F. B. Off (O), 115 South Sixteenth street. William R. Dougherty (C), 1610 Sansom street. Cost, \$5,000. Office and apartments, 115 South Sixteenth street.

Max Coplan (O), 1003 South Fifth street. M. Botvin (C), 418 Carpenter street. Cost, \$1,000. Dwelling, 1003 South Fifth street.

Philadelphia Home-Made Bread (O), 1433 North Twelfth street. B. White & Co. (C), Perry Building. Cost, \$4,000. Bakery, 1433 North Twelfth street.

D. Welsh (O), 1321 Point Breeze avenue. A. Barsky (C), 636 Pine street.

A building can never produce the impression of unity of the bridge and thus can never inspire like the bridge, because while portions of a building can be eliminated and still leave it a building, the elimination of a portion of a bridge means its destruction for the purposes for which it is erected.

The bridge occupies thus a unique position among the structures of man and is paralleled only by the dam, to which, however, it is far superior, since the dam is lacking in the sense of self-evident security imparted by the bridge.

Not only is the bridge unique in its position among structures, but is the largest single structure erected by man and the most costly. It is also highly important in point of numbers, involving large investments. There are, for example, some eighty thousand metal bridges in the United States, or one for every three miles of railroad. They aggregate a length of fourteen hundred miles and represent an investment of eight hundred million dollars, or several times the cost of the Panama Canal and almost the real estate valuation of the City of New York. The subject of bridges is therefore one that demands the most careful attention. It is not a subject which should be reserved for the officials and the engineers in charge; it is one in which the public should take an active and decisive interest. When a bridge of any consequence is to be erected the designs should be open to public inspection and all objections and suggestions should be dealt with in advance.

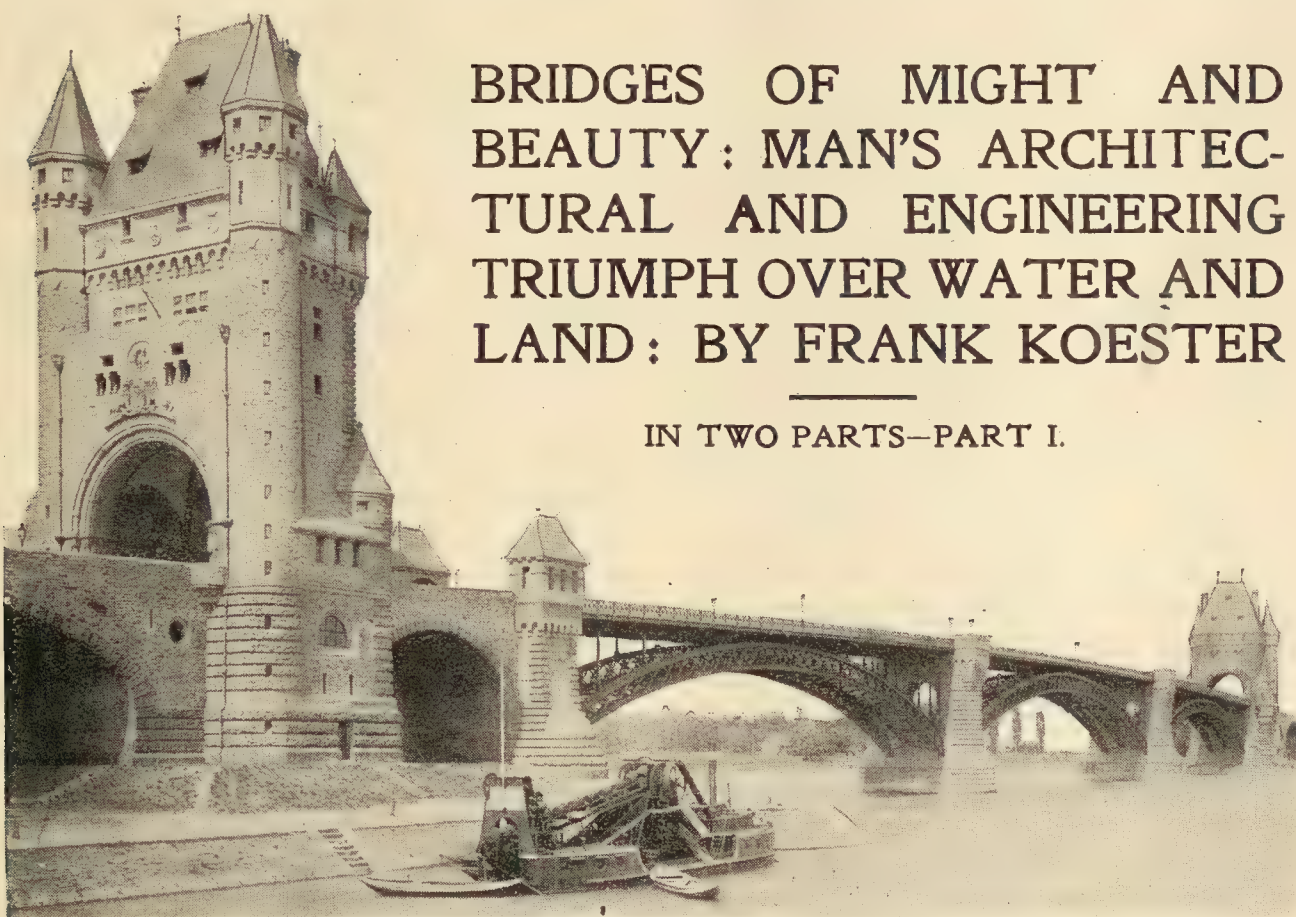
All phases of the question should be regarded carefully; the aesthetic appearance of the bridge, its engineering features, its location, capacity, future uses, cost, operation costs, durability, materials and its effect on the city's growth; and only after a thorough consideration of every feature should its construction be begun.

The pleasing psychological and aesthetic effects of bridges have been recognized since the earliest times; but great bridges are a result of modern invention, being dependent for their evolution upon cheap steel. Stone bridges have never been constructed in anything like the great spans of the modern steel bridges. Railroads have greatly increased the necessity for bridges; in fact, except for the comparatively small stone bridges of ancient and mediaeval times, the principles of which were early mastered, bridge building is a modern science.

The success achieved in a material and engineering sense has been little less than stupendous; for enormous structures have been erected which have met the demands of traffic and the various difficult conditions which were presented.

In two respects, however, the modern bridge is for the most part a failure. It is not artistic nor will it have the long life of the ancient bridges. The Romans two thousand years ago built bridges which are in use to-day; but no modern metal bridge, even with the most careful attention, can be expected to last even a small part of that time.

(Continued on page 325.)



LUDWIG BRIDGE OVER THE RHINE AT WORMS: AN EXAMPLE OF THE MASSIVE PORTAL-TOWERS POPULAR IN GERMANY

[Editor's Note: This article is reprinted from the "Craftsman Magazine" by courtesy of Mr. Gustav Stickley, to whom "The Guide" is indebted for the use of the cuts with which it is illustrated, and by permission of the author, Mr. Frank Koester.]

Of all the structures erected, the bridge is possessed of the greatest individuality, unity and feeling. It is at once an inspiration and a utility, and it marks as does no other structure, the progress of man from barbarism to civilization. It is one of his greatest triumphs over Nature's obstacles; for it is

not only an evidence of his ability to construct, that is, to place one stone upon another, but of his ability to think and so to utilize the forces of nature, causing one stone upon another to bridge an intervening distance with nothing directly underneath for support.

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PHILADELPHIA, PA., MAY 20, 1914.

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Editorial Comment

Although the total of building operations throughout the country, for April, show, in the aggregate, a considerable falling off as compared with those of the same month a year ago, the underlying cause is given as natural reaction rather than any disquieting economic condition. In all of the principal cities of the country the last ten years have been years of high-pressure activity. It was inevitable to some extent that sooner or later this driving demand must suffer an at least temporary check. And it is just this precisely which has happened. A lull in the proceedings has eventuated—temporary we have no doubt,—and more for the purpose of gathering breath and taking stock than because of any doubt as to the future. As we predicted in a former survey of conditions in the trade, we shall be most disagreeably surprised if the totals for 1914 do not show most favorably, as a whole, compared with the past several years. Permits taken out in 77 cities during April for the erection of new buildings show a total expenditure of \$59,905,977. The same month last year showed a total of 23,055 permits involving an expenditure of \$76,668,943, a decrease in this year's totals for the month of \$16,762,966, or 23 per cent. The South, the Pacific Coast and the larger cities show the heaviest losses. Ohio cities, on the other hand, show the most conspicuous gains. An analysis of the figures reveals much that is of trade interest. For example, there were decreases in 44 cities and gains in 30. The city of Cleveland showed a notable increase—37 per cent. Pittsburgh showed an increase of 9 per cent.; Cincinnati an increase of 39 per cent., and Youngstown an increase of 64 per cent. Allentown gained 25 per cent., Dayton 22 per cent., and Memphis 46 per cent. Of the losses New York registered 32 per cent.; Philadelphia, 16; Boston, 11; Chicago, 17; Milwaukee, 24; Indianapolis, 22; Louisville, 11; Baltimore, 61; Toledo, 12; Newark, 57; Kansas City, 40; Norfolk, 36; Nashville, 39; New Orleans, 13; Reading, 25; Wilkes-Barre, 34; Portland, Ore., 66; Springfield, Ill., 31; Topeka, 30; Savannah, 63; Los Angeles, 62; San Francisco, 45; Oakland, 36, and San Diego, 69.

* * *

The editor of the "Guide" is much pleased to note the increasing esteem in which the "Guide" is held by its readers. When a paper's readers show a keen and intelligent interest in its contents the editor has the satisfaction of knowing that his paper is read. And when a paper is read carefully and systematically by a considerable number of readers it is on the high road to success. Among the convincing evidences that come to the editorial desk proving how closely the pages of the "Guide" are read is the weekly influx of letters asking additional information, commending certain editorial views, suggest-

ing topics of trade interest and showing in various little ways an alert, wholesome and direct interest in the "Guide" and its activities. To say that we welcome letters of the kind is stating the case mildly. We want them, look for them, are delighted to get them. They are the biggest kind of help to the editor who, shut away from personal contact with the men for whom he writes, has no other means of knowing the tastes, the views, the idiosyncrasies and prejudices of his readers. We are delighted, too, to receive letters suitable for publication. When you see something in the pages of the "Guide" concerning which you would like to express an opinion, sit down and write about it. Write fully, freely and naturally. Talk right out in meetin'. Don't hesitate to speak your mind. Then send it to us. Letters of this kind are immensely helpful. They bring about discussion. Out of discussion has come every reform the world has been able to engineer since the dawn of civilization. Discussion of trade questions is one of the primary functions of a trade newspaper. You state your opinion, another reader volunteers his. A third reader points out considerations overlooked by both. Ultimately the specialist injects the authoritative view of the trained thinker. The result is a symposium of practical benefit and real interest. No editor knows it all. No editor worth while fancies he does. Besides, editors have a way of getting into a rut. Their interests are apt to dwindle down to a few fads, leaving wholly out of consideration hundreds of questions of the most practical trade interest. When you write a letter covering one of these neglected topics, you do the editor a service. You get him away from his fads, his hobbies, his little round of over-circumscribed personal predilections and into the larger field of the outside point of view.

* * *

That is why the "Guide" is always glad to receive letters from its readers in the trade. The editor of the "Guide" believes in co-operation. He believes in the practical and the common-sense as opposed to the idealistic and the fanciful. He believes that the average reader is a better judge of what the reader wants than the average editor. And then again, he is always glad to get a glimpse of the reader's point of view. The moral of all this is—write! Write a suggestion, a criticism, a commendation or a query. If it's worth while, we'll print it. In any event, it will have our sympathetic attention. So—write. Write often. Send us your side of the question uppermost in trade discussion.

* * *

Have you noticed how the "Guide" is broadening out, extending its field, widening its activities, enlarging its zone of interest? There was a time when the "Guide" was almost wholly "local." General advertisers

used to pass it by on the ground that its appeal was too narrow to make it of value to them. We grew tired of hearing that particular story. We determined to make the "Guide" big enough in its appeal to be worthy of the attention of the national advertiser. That we are succeeding, the "Guide" itself offers the best proof. In one day recently we had requests for extra copies from London, England; Oakland, California; Memphis, Tennessee, and Springfield, Illinois. Recent subscriptions were from five States east of the Mississippi and three west thereof. Our building news now comprises everything of interest in Pennsylvania, New Jersey, Delaware and Maryland. We reach every architectural chapter in the American Institute and every builder of consequence in the East. And we're booking new subscribers at a rate that we ourselves would have considered phenomenal four years back. Oh, yes, the "Guide" has grown. Better yet, it is still growing. And it expects to continue to grow. The general advertiser who can't see the "Guide" to-day needs the attention of an oculist. It passed the "local" stage of its growth long ago, as the most cursory examination of its pages will suffice to show. The "Guide" of to-day is a trade paper with few superiors in its field. It merits the notice of men who advertise with a view to getting results.

BRIDGES OF MIGHT AND BEAUTY.

(Continued from page 323)

Even if protected from the action of the elements, the steel which might then be reasonably expected to last indefinitely, will inevitably be subject to crystallization from the effects of vibration. Thus all our steel bridges are temporary structures. This, however, will, in most cases, prove a matter of congratulation, as when they pass away they will undoubtedly be replaced by more artistic structures. Only our stone bridges can be expected to endure into the eras of new races if such are to succeed us.

But the more striking defect in our bridge construction is the lack of artistic talent shown in their designs. In the pressure to get enough bridges erected to accommodate traffic, they have been built with little or no sense of aesthetic effect and are accordingly without beauty and individuality.

Engineers have been content to erect bridges that would stand up, and although in this eminently successful, the appearance of the bridge has been utterly neglected. The great majority of bridges viewed from an engineer's standpoint are not too good in design, containing far more metal than is necessary in certain parts, in others far too little. This is proven by the frequent strengthening of, and additions to, existing bridges, their unnecessarily high cost and by the removal of tracks. Thus our engineers can only be credited with the roughest kind of work, a conclusion not to be wondered at, since the mind that would be satisfied with an aesthetically ugly bridge could not be expected to avoid imperfections in the practical side of its design.

The great importance of the bridge, both in the practical and aesthetic life of the city, demands that its design and construction receive the utmost care and attention. No single part of the plan of a city, with the exception of the civic center, is of greater importance than its bridges. The civic center may be likened to the main hallway of a building and the bridges to the portals. Often the first impression of a city and frequently the most lasting one is gained from a bridge serving as its entrance. It should therefore be treated with the dignity it deserves, and be made a feature of the city's plan rather than a mere encroachment of a utilitarian nature.

A bridge should be considered aesthetically from three points of view: The bridge itself, the bridge in its relation to its approaches, and the combined effect of the bridge and its approaches in relation to environment.

In its design it should be regarded as an integral part of the city's plan, and it should be located in reference to the whole plan of the city and in such a way as to produce the most efficient and pleasing result. A bridge may, for example, serve as a terminal or focal part of an important avenue, or for several converging avenues, full advantage thus being taken of its architectural importance.



THE RIALTO, THE GHETTO OF THE GRAND CANAL, ONE OF ITALY'S MOST ROMANTIC AND HISTORIC BRIDGE MARKET-PLACES

FIRE RETARDANT PAINT FOR SHINGLES.

One of the many interesting papers read at the twenty-sixth annual convention of the Master Painters and Decorators Association of Pennsylvania, recently held in Pittsburgh, was that on the above subject by Henry A. Gardner, of the Institute of Industrial Research, Washington, D. C. The paper was of considerable length and dealt with many phases of the subject, including a description of a series of laboratory tests to determine the heat deflecting properties of various types of roofing materials. Miniature houses were roofed with bare shingles, painted shingles, tin and stone. These houses were placed in an oven heated to 150 degrees Centigrade. At the end of 15 minutes thermometric readings were taken and the interior of the houses roofed with stone and tin showed a much higher temperature than those roofed with shingles. The house with the roof covered with painted shingles showed the lowest temperature. On account of the heat deflecting properties of shingles they will probably always find a wide application in warm climates and the point was also made that shingled dwellings are much cooler in summer than ironclad or stone roofed dwellings.

A summary of the conclusions reached were given as follows:

The shingled roof is highly desirable on account of its durability, light weight, low cost and non-conducting properties.

Shingled roofs are subject to conflagration when they become dry. Hot cinders from chimneys or glowing sparks carried by the wind from near-by fires are common causes of roof fires.

The use of high-grade mineral paints upon shingled roofs eliminates such fire danger. Shingled structures of all types, when properly painted, are not only fire resistant, but they are moisture proof and highly ornamental.

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Builders and Contractors who are preparing plans for residence building operations should not fail to incorporate in their plans the comprehensive Electric wiring of all buildings to be erected. It is a sure thing that properties Electrically equipped will sell or rent more quickly than unwired houses.

We have facts and figures to show you.



CONCLUSIVENESS OF RECEIPT IN FULL.

A recent decision of the Supreme Court of Appeals of Virginia bears on the question of the conclusiveness of a payment received by a builder under a tender of the same by the owner as full payment of the builder's claim, where the builder claims that a larger amount is actually due. This decision follows the rule announced by most of the courts to the effect that the builder's right to recover an additional sum depends upon whether there was a bona fide dispute between the parties; if such dispute existed the payment tendered and received is a final discharge of the debt.

From the facts in this case it appeared that an owner was indisputably indebted to a firm of builders in the sum of \$6,450.54, and when they agreed to "knock off" \$20 if paid at once, he told them that he did not desire any discount. Later, however, he tendered a check for \$6,000, claiming that he was entitled to deduct the \$450.54 as damages for claimed delay in completion of the buildings covered by the contract, and gave the builders the ultimatum of accepting \$6,000 in full settlement, or of suing for the whole amount. Being urgently pressed for money, the firm accepted the check and gave a receipt in full and sued for the balance. In sustaining their right of recovery, in the case of Thomas & Cross vs. Brown, 81 South-eastern Reporter, 56, the Virginia court holds that there were no real differences between the parties, and hence no basis for a compromise.

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—*Ex.*



Courtesy of the New York City Planning Exhibition.

MASONRY BRIDGE AT ALLANS LANE OVER WISSAHICKON CREEK, PHILA., PA. A SIMPLE BUT UNUSUALLY BEAUTIFUL FORM OF FIELD-STONE CONSTRUCTION.

PROGRESSIVE ARCHITECTURAL CONSTRUCTION

I call the use of uncovered tile for a building an invention. Looking at it from another point of view it is no invention at all because every tile house in the earlier stages of its construction, before stuccoing, shows exposed hollow tile. It was the attractive appearance of such uncompleted building that showed the possibilities which might be made use of by refining the material itself, and when it was found that hollow tile and a very beautiful textured brick were made at the same factory the application of textured brick surfaces to tile was evident.

Given the outline of this house of texture-tile and the condition that it be divided into burnt-clay building units of fitting size, how would you articulate its surface? I am very curious to hear, or, rather, to see the answer. Of one thing only am I sure. You would not draw common brick divisions. You'd draw uncommon brick dimensions. If the house were of any other material than burnt-clay, you would surely use as large units as you could. If it were clapboards, you'd want them ten inches to the weather and be keenly disappointed if your owner cut you down to stock dimensions. The same with shingles. You'd make a fight for wide hand-split cypress. In ashlar you would use big stones and wide joints, irregular I'll grant you, but of large average. Mr. Atterbury turns his brick on the wide side. The larger than brick unit fulfills the requirements of scale.

But it wasn't scale that led to the discovery of texture tile. Tile is the big brother of the brick. Economy in manufacture dic-

tated the large unit just as the limits in size of the successfully burnable lump clay dictated for centuries the size of the brick.

The other invention is the beveled block, and above it is the non-conductive flat roof. The V beam is in line with our discussion of sand moulded beam perfection, though bound down a little by the limitations of the manufacture of the machine-made form. It is generally known that the cored concrete slab is economical and efficient and that the beam section to be economical should be top heavy. In order to produce this in the simplest possible way and also provide a level ceiling, single units of tile in the form of truncated pyramids have been provided which, owing to the necessities of tile manufacture, are open on two of their six sides. In general practice it has been found that concrete poured into the channels formed by these open ends doesn't enter them further than enough to give a good mechanical bond. If it is required to completely dam the concrete from these ends it may be readily done with sand placed in the groove and pressed into the openings before the concrete is poured, and if a mechanical bond is required the exact amount of it may be secured by sweeping the sand already placed in the ends of the tile back from the face by means of a broom. The sand has a desired curative effect on the concrete.

A flat roof must be carefully insulated against transferring the vertical rays of the noonday sun. Here the insulation is performed, first by the slag, then by the loose, gran-

ular, air containing cinder fill. Each air-space in it is infinitesimal and the stages by which the heat above works from air space to neighboring air space below is very slow, especially since the heat is going contrary to its natural rising tendency. When it gets to the concrete, that good conductor, it must travel below it through the dead air spaces of the tile, layer by layer to the bottom of the block. There is no better way to check it. Fires under such a roof have not melted snow lying upon it. So much for the House of Three Inventions, built of concrete and texture-tile.—Frederick Squires, in "Architecture and Building."

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

BONDS IN BRICK WORK.

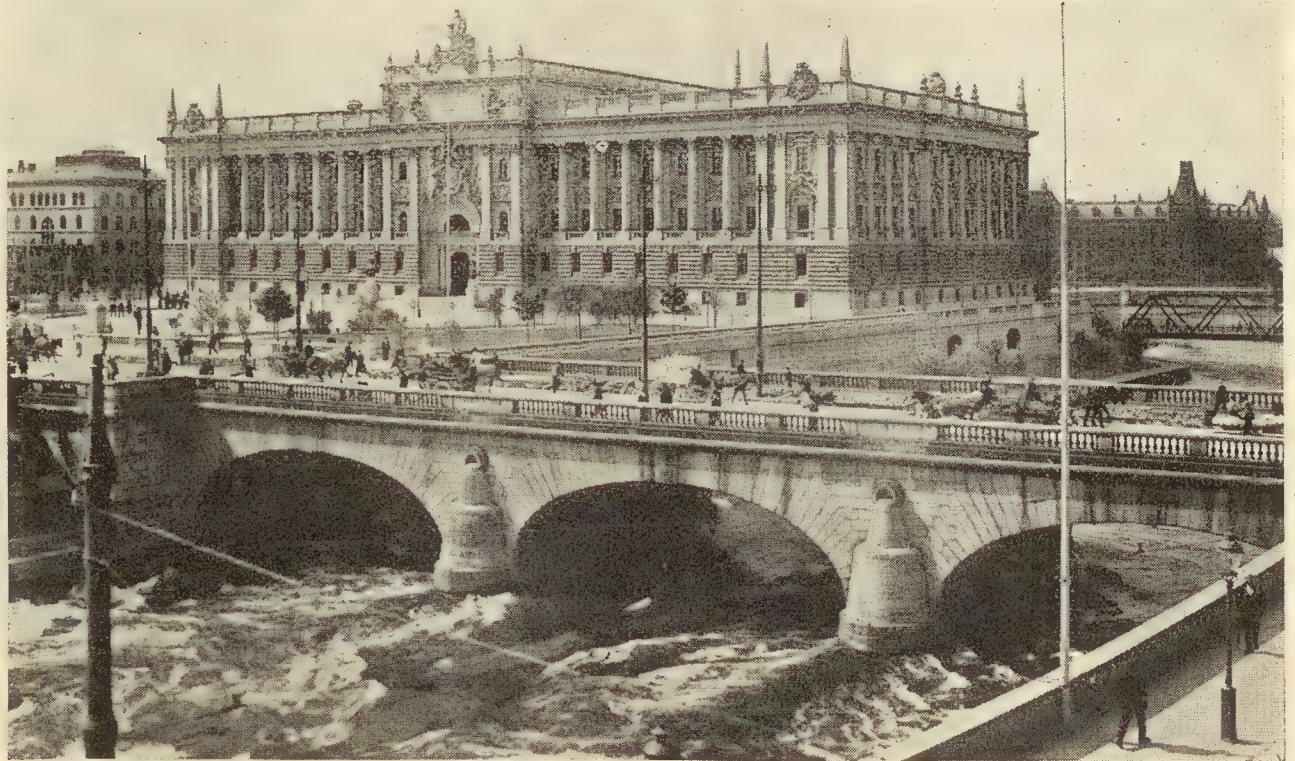
Several of the bonds that are now employed in exterior brick work are described in an interesting article by H. D. Eberlien. He says the most common bond, in fact, almost the only one employed during a great part of the nineteenth century, is the running bond, in which all the courses are composed of "stretchers," that is to say, brick laid lengthwise, the only "headers" or endwise brick visible being at the window jambs, at the starting of piers and pilasters and in straight header courses at more or less frequent intervals where their use is made obligatory by the local buildings laws to tie the face-wall to the backing. Each course breaks joints vertically with the courses immediately above and below. Running bond is perhaps the simplest and certainly the least interesting and artistic way of laying brick and has little to commend it except considerations of economy.

The Flemish bond, in which every course consists of alternate headers and stretchers,

is, after the running bond, the one we most commonly meet with, having been generally used in our brick buildings of Colonial date, in which the black header and red stretcher effect is so often noticeable. Flemish bond is constructionally honest, artistic and satis-

fying, and its almost universal employment in modern building of Colonial style cannot be too strongly commended.

The double-stretcher Flemish bond which, as its name denotes, consists of two stretchers together, followed by a single header in all



BRIDGE OVER THE NORDSTROM AT STOCKHOLM, SWEDEN, "THE VENICE OF THE NORTH;"
THE PARLIAMENT BUILDING IS SEEN IN THE BACKGROUND.



THE PONTE VECCHIO WHICH SPANS THE SLUGGISH WATERS OF THE ARNO AT FLORENCE; THE JEWELERS' AND CURIO-DEALERS' SHOPS THAT LINE THE COVERED ROADWAY MAKE THIS THE MOST UNIQUE OF ALL ITALIAN BRIDGES.



THE BERLIN-CHARLOTTENBURG BRIDGE, OVER THE SPREE; AN IMPRESSIVE EXAMPLE OF
PRUSSIAN ENGINEERING AND ARCHITECTURE.



Courtesy of the New York City Planning Exhibition.

REINFORCED
CONCRETE BRIDGE
AT
WALNUT LANE
PHILADELPHIA, PA.

courses, the headers being laid above the joints between the two stretchers in the course next below. It is coming more and more into vogue in America and has been used in some of our largest buildings with signal success.

For the vertical joints between the contiguous stretchers mortar colored to exactly match the brick is often used, thus making a blind joint and giving the effect of one double-length stretcher. The use of double-stretcher Flemish bond sets a big, broad scale and can be employed to advantage in large wall surfaces, particularly where it is desired to take off somewhat from the appearance of height, as the strongly marked hori-

zontal lines have that effect. This feature can be further emphasized by slightly increasing the thickness of the horizontal mortar joints.

English bond and Dutch cross bond, like both the single-stretcher and double-stretcher Flemish bond, are replete with artistic feeling and deserve to be far more widely known and used than they now are in America. Not only are they essentially artistic, but they are strong and honest in structure. Both English bond and Dutch cross bond have alternate courses, the one wholly of stretchers and the next wholly of headers; but in the English bond the stretchers of all the courses come directly above each other, while in the

Dutch cross bond the stretchers of the first and fifth courses break joints with the stretchers and of the third and seventh courses respectively, and thus throughout, giving a diagonally diapered appearance if the mortar joints and the hue of the brick be judiciously contrasted.

The bonds mentioned are the most usual kinds, but one also meets with special adaptations of recognized types; it is, however, quite sufficient for general purposes to remember the five enumerated. In fact, many people, who are supposed to have some knowledge of such matters, have difficulty in keeping the differences clearly in mind and generally fall down in trying to describe them.

MONROE STREET BRIDGE,
SPOKANE,
WASHINGTON;
AN
EXCEPTIONALLY INTERESTING
EXAMPLE OF
REINFORCED CONCRETE
CONSTRUCTION.



Courtesy of the New York City Planning Exhibition.

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Keystone Blue Paper Co.,
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Penna. Bldg., Phila.
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Samuel H. French & Co.,
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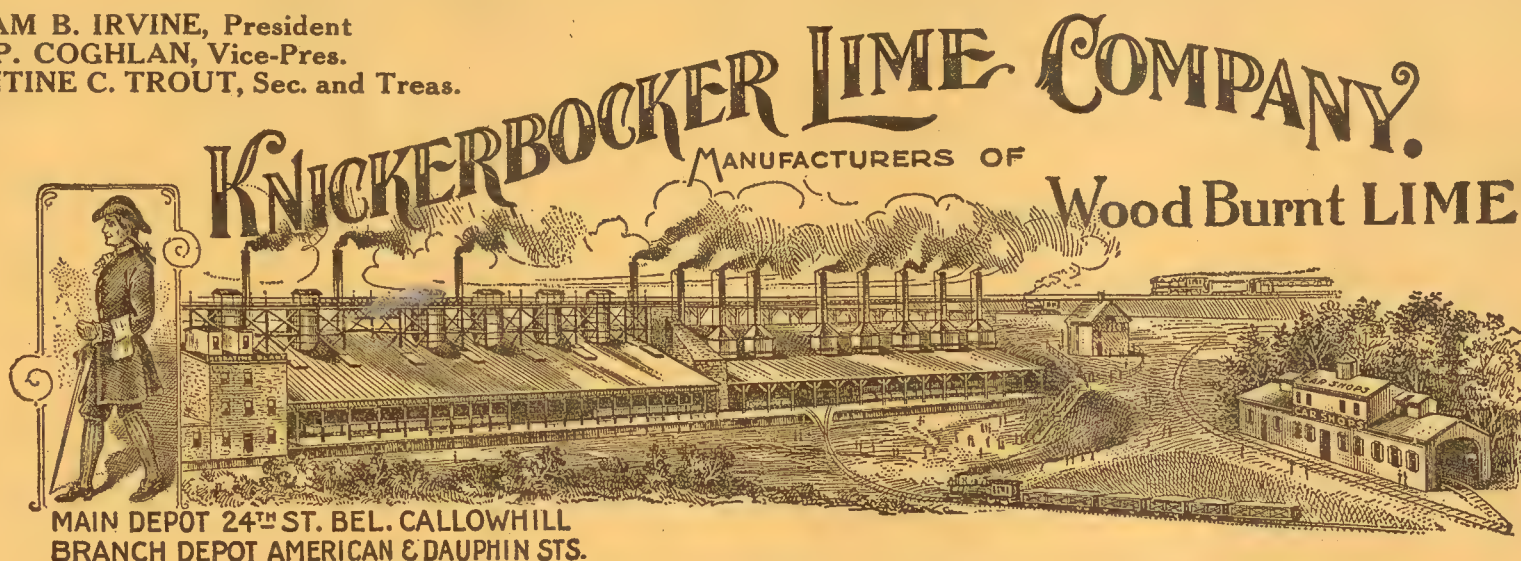
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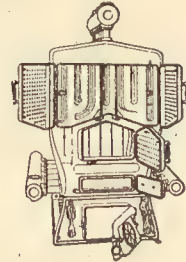
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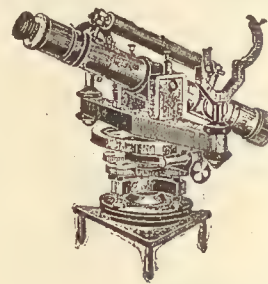
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PHILADELPHIA, WEDNESDAY, MAY 27, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Somerton, Philadelphia. Architect, H. L. Reinhold, 1309 Walnut street. Owner, Cameron Worthington, care of Central Trust and Savings Company, Fourth and Market streets. Hollow tile and plaster, 2½ stories, 35x36 feet, shingle roof, hot water heating, electric lighting. Plans in progress.

Office Building, Overington and Frankford avenues. Architect, Harry Zimmerman, 4957 Hawthorne street. Owner, Dr. Frank P. Embury, 4662 Frankford avenue. Brick, 2 stories, 18x40 feet, slag roof, steam heating, electric lighting. Architect taking bids, due May 28th. H. E. Baton, Twelfth and Sansom streets, is figuring.

Residence (alt. and add.), 1810 Spruce streets. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Dr. J. P. C. Griffith, 1810 Spruce street. Brick, 3 stories, consists of interior alteration and additions (heating and lighting reserved). Architects have received bids.

Store and Hall, 209-11 South Fifty-second street. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owners, Arzoomanian Brothers, care of Harvey Aungst, Fifty-second and Sansom streets. Brick, 3 stories, 30x70 feet, slag roof, steam heating, electric lighting, metal lath. Owners have received bids.

Residence and Stable, Kater street, between Seventh and Eighth streets. Engineer, William H. Gravell, 1420 Chestnut street. Owner, Louis Fanelli, 709 Kater street. Brick, 3 and 1 stories, 28x21 feet, 30x21 feet, slag roof, hot water heating, gas lighting, waterproofing, rolling steel doors, tile work. Engineer has received bids.

Residence, Roxborough, Philadelphia. Architect, J. A. Platt, Jr., 721 Walnut street. Owner, Edward Kippax, 4230 Pechin street. Hollow tile and plaster, 2½ stories, 38x32 feet, shingle roof, hot water heating (electric work reserved). Architect taking bids, due June 1st. The following are figuring: John Morrow Construction Company, 308 South Twelfth street; F. B. Davis, 240 North Sixteenth street; C. Morris Swartley, 427 Hermitage street; Keller Brothers, Harmon road, Roxborough, Philadelphia; George F. Pawling Company, Broad and Vine streets.

Apartment House (alt. and add.), 1734 Mt. Vernon street. Architect, H. L. Reinhold, 1309 Walnut street. Owners, Morris Realty Company, 122 South Thirteenth street. Brick. Plans completed. Owners will take bids.

Residences (112), Thirteenth and Shunk streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, Raymond & Kilpatrick, Seventeenth and Mifflin streets. Brick, 3 stories, 14x37 feet, slag roofs, hot air heating, gas lighting. Owners taking sub-bids.

Sunday School, Mervine and Rockland streets. Architects, Stuckert & Sloan, Crozer Building. Owners, Holy Trinity Presbyterian Church, Rev. M. S. Bush, 1037 Rockland street. Stone, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Factory (alt. and add.), Van Kirk and Milnor streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Thomas Janney & Co., 315 North Third street. Brick, 2 stories, slag roof. Architect taking bids, due June 1st. The following are figuring: Roydhouse-Arey Company, Fidelity Building, Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; Harrison C. Rea Co., 1027 Wood street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; William R. Dougherty, 1610 Sansom street; Armstrong & Latta, Land Title Building.

School (2 wings), Forty-ninth and Parrish streets. Architect, J. Horace Cooke, Land Title Building. Owners, Board of Education, City Hall. Brick and stone, fireproof, 3 stories and basement, slate roof (steam heating and electric lighting separate bids), metal lath, waterproofing. Owners taking bids, due June 5th.

Store Building, Seventeenth and Ranstead streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Charles Lentz & Sons, 18 North Eleventh street, Philadelphia. Brick and terra cotta, fireproof, 5 stories, 45x51 feet, slag roof, steam heating, electric lighting, composition floors, safety treads, steel sash and frames, metal doors and frames, metal lath. Architect taking bids, due June 1st. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Cramp &

Co., Denckla Building; F. L. Hoover & Sons, 1023 Cherry street; H. C. Rea Company, 1027 Wood street; George L. Sipps, 912 Locust street; Stacey Reeves & Sons, 2011 Market street; Ketcham & McQuade, 1125 Brown street; Joseph Bird Company, 213 North Eleventh street; Barclay White Company, Perry Building.

Store and Apartments, 1223-25-27 South Fifty-second street. Architect, M. Haupt, Drexel Building. Owner, H. Schwartzman, on premises. Brick, 2 stories, 60x100 feet, slag roof, steam heating, electric lighting. Plans in progress. Bids in about two weeks.

Synagogue, 322-24-26 Bainbridge street. Architect, F. N. Greisler, 502 Lafayette Building. Owners, Congregation of Ohav Chesed Anahe Saval, on premises. Brick, 2 stories, 40x100 feet, slag roof, steam heating, electric lighting, metal ceilings, metal sash and frames. Architect taking bids, due May 29th. Fred Quate, 1323 Snyder avenue; B. Bernstein, 412 South Fifth street.

Residences (11), southeast corner Ninth and Reed streets. Architect, B. J. Medoff & Sons, 524 Walnut street. Owner, Samuel Wilensky, 816 Reed street. Brick, 18x60 feet, 3 stories, slag roof, hot air heating, electric lighting. Plans in progress.

Hall (alt. and add.), Eighth and Lombard streets. Architects, B. J. Medoff & Sons, 524 Walnut street. Owners, Szapove Brothers, Eighth and Lombard streets. Brick, 3 stories, metal lath, metal sash and frames. Consists of interior alteration and addition. Plans in progress.

Garage, St. Martins, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and brick, 1 story, 26x41 feet, shingle roof, hot water heating, electric lighting (gasoline storage reserved). Architect has received bids.

Tank Tower, Frankford, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street. Owners, S. W. Evans & Sons, 4623 Paul street, Frankford. Brick and steel, 4 stories, tin roof. Architect taking bids, due May 28th. Arthur Williams Sons, 419 Locust street; George Pawling Company, Broad

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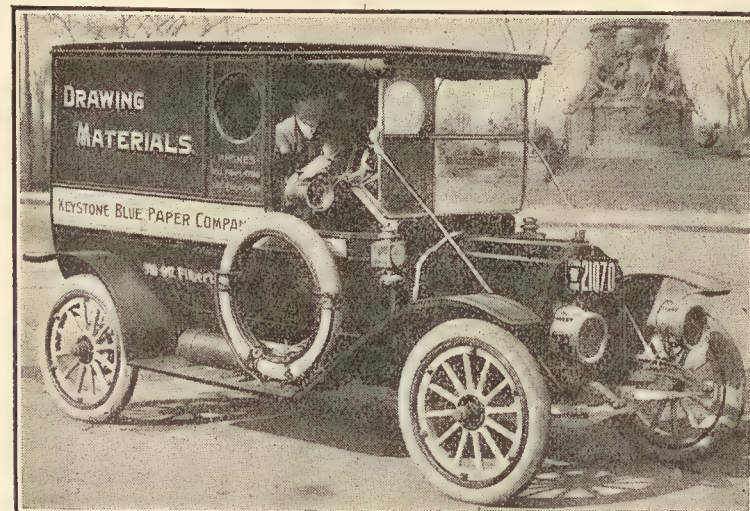
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and Vine streets; George L. Sipps, 912 Locust street, are figuring.

Manufacturing Building, Twenty-fourth and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, J. J. Greenberg, Morris Building. Lessees, National Enamel and Stamping Company, 222 North Twenty-third street. Brick and steel and concrete, 6 stories, 60x200 feet, slag roof, steam heating, electric lighting, metal sash and frames, waterproofing, elevators. Owners have received bids.

Hospital (add.), Frankford avenue and Palmer street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, St. Mary's Hospital, on premises. Brick, stone and terra cotta, 5 stories, 170x268 feet, slag and tile roof (electric lighting, steam heating, central plant), waterproofing, metal lath, metal doors and frames and sash, elevators. Architect taking bids, due June 3rd. James G. Doak & Co., Crozer Building; Melody & Keating, Bailey Building; Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; William R. Dougherty, 1610 Sansom street; W. J. McShane, 417 South Thirteenth street; Mitchell Brothers, 2125 Race street; J. E. & A. L. Pennock, Land Title Building; Harrison C. Rea Company, 1027 Wood street, are figuring.

Residence, Upsal street and Germantown avenue. Architect, C. E. Fogg, Llanerch, Pa. Owner, Mrs. Emily C. Fogg, Llanerch, Pa. Stone, 2½ stories, 32x48 feet, asbestos shingle roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due May 27th. W. J. Gruhler, 219 High street, is figuring.

Playground, Fifty-first and Chester avenue. Architect, Philip H. Johnson, Land Title Building. Owners, Board of Recreation, City Hall. Brick, concrete and iron, consists of wire screen, fence and gates. Owners taking bids, due June 1st. P. J. Hurley, 1233 Cherry street; Peoples Brothers, Twenty-fifth and Callowhill streets; M. & J. B. McHugh, Commercial Trust Building, are figuring.

Garage (alt. and add.), Twentieth and Brandywine streets. Architect, P. M. Colen, 3133 Norris street. Owner, M. Boyle, 1528 Market street. Brick and concrete, 3 stories, 70x109 feet, slag roof, hot water heating, electric lighting, asphalt floors, metal lath, metal sash and frames, elevators. Revised plans in progress. Bids in one week.

Garage, Twenty-eighth and Thompson sts. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Frank A. McClatchy, 1408 North Twenty-ninth street. Brick, 1 story, 33x80 feet, slag roof, steam heating, electric lighting, gasoline storage system. Plans in progress.

Laboratory Building, Twenty-fourth and Norris streets. Architects, Koelle Speth Co., Twenty-sixth and Oxford streets. Owners, Standard Dental Manufacturing Co., Twenty-fifth and Diamond streets. Brick, 2 stories, 20x24 feet, slag roof, steam heating, electric lighting. Architect received bids May 26th.

Store (alt. and add.), 902-04 Vine street. Architect, private plans. Owner, William Herzberg, Ridge avenue and Vine street. Brick, 3 stories, 36x60 feet, slag roof, steam heating. Owner taking bids, due May 27th. Lam Building Company, 1001 Wood street, are figuring.

Residence (alt. and add.), 640 Carpenter street, Germantown. Architect, J. Horace Frank, Real Estate Trust Building. Owner, Mr. E. J. Flood, 616 West Sedgwick street. Frame, 2½ stories, 26x35 feet, shingle roof, electric lighting (hot air heating and parquet floors reserved). Architect taking bids, due June 2nd. Thomas C. Trafford, 1613 Sansom street; Graham Campion Company, Heed Building; H. E. Baton, Twelfth and Sansom streets; I. T. Shoemaker, Upsal and Wissahickon avenue; W. C. Wright, 22 Harvey street; M. S. Oberholtzer, 5524 Pulaski avenue; R. H. Christy, 142 Allen lane, are figuring.

School (add.), Forty-ninth and Parrish streets. Architect, J. Horace Cook, Land Title Building. Owners, Board of Education, City Hall. Brick and concrete, 2 stories and basement, 2 wings 28x71 feet each, slate roof (steam heating and electric lighting reserved), dampproofing, metal lath. Owners taking bids, due June 5th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; P. J. Hurley, 1233 Cherry street; Mitchell Brothers, 2125 Race street; Cramp & Co., Denckla Building; H. H. Wehmeyer, 1004 West Lehigh avenue; J. W. Emery, 1524 Sansom street; F. W. Van Loon, Denckla Building. (Proposal bond.)

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Overington and Frankford avenue. Architect, Harry Zimmerman, 4957 Hawthorne street. Owner, Dr. Frank P. Embrey, 4662 Frankford avenue. Brick, 2 stories, 18x40 feet, slag roof, steam heating, electric lighting. Architect taking bids, due May 28th. The following are figuring: Smith-Hardican Company, 1606 Cherry street; H. E. Batton,

Twelfth and Sansom streets; J. F. Davies, Heed Building; John Fotheringham, 3367 Frankford avenue; C. West & Co., Harrison and Horrocks streets; Reimer & Byers, 4842 Hawthorne street; Anton Ahlers, Wissanoming, Pa.; Rush Brothers, 1023 Orthodox street; Wilson Milnor, 4634 Penn street, and Edward Nattress, Frankford, Pa.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, Main and Gay streets, \$20,000. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, Missouri Mills, George W. Davis, on premises. Brick, 3 stories, 46x63 feet, slag roof, metal sash and frames, steel rolling shutters, metal lath (heating and electric work reserved). Contract awarded to E. L. Cuthbertson, 334 Roxborough avenue.

Stores (7), Germantown avenue and Venango street, \$15,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Walter Stuempfig, 5508 Germantown avenue. Brick, 1 story, 16x30 feet, slag roof, steam and hot air heating, electric lighting. Contract awarded to H. P. Schneider, York road and Erie avenue.

Stable, Manayunk, Philadelphia. Architect, private plans. Owners, Martin & W. H. Nixon Paper Company, Manayunk, Philadelphia. Brick and stone, 2 stories, 23x45 feet, slag roof. Contract awarded to Barclay White Company, Perry Building.

Office Building, Seventeenth and Arch streets, \$1,250,000. Architect, John T. Windrim, Twelfth and Chestnut streets. Owners, Bell Telephone Company, Thirteenth and Arch streets. Brick, stone and terra cotta, fireproof, 15 stories, 86x157 feet, tile roof, (steam heating, electric lighting reserved), waterproofing, metal partitions, steel sash and frames, metal lath. Contract awarded to Cramp & Co., Denckla Building.

Residence (Triple), Chestnut Hill, Pa. Architect, George S. Idell, 34 South Sixteenth street. Owner, Jacob Disston, Tacony, Philadelphia. Stone, 2½ stories, 40x140 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Kohl & Megargee, Mt. Airy, Pa.

Factory, Front and Venango streets, \$16,000. Architect, E. C. Austermuhle, care of owners. Owners, Dorner-Tretbar Co., 1210 Kaighn's avenue, Camden, N. J. Brick, 2 stories, 41x101 feet, slag roof, steam heating, electric lighting. Contract awarded to Edward Geschke, Collingswood, N. J.

Automobile Show Rooms, northwest corner

Twenty-third and Chestnut streets. Architect, M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenberg, Morris Building. Brick and terra cotta, 4 stories, 98x240 feet, slag roof, steam heating, electric lighting, waterproofing, dampproofing, enamel brick, metal frame and sash, metal lath, elevators. Contract awarded to Turner Concrete Steel Company, 1713 Sansom street.

Home (add.), Lawndale, Philadelphia, \$40,000. Architects, Koelle & Speth Company, Twenty-sixth and Oxford streets. Owners, German Protestant Home for Aged, Lawndale, Pa. Brick and concrete, 3½ stories, slate roof, electric lighting. Builder, Koelle-Speth Co., Twenty-sixth and Oxford streets, are taking sub-bids on all lines.

Church (add.), Forty-first and Ludlow streets, \$8,500. Architect, S. B. Bythwood, 807 South Nineteenth street. Owners, Monument Baptist Church, Forty-first and Ludlow streets. Stone, 1 story and basement, 37x50 feet, slate roof, steam heating, electric lighting. Contract awarded to J. F. Trent, 1930 Montgomery avenue.

Residence, Overbrook, Pa., \$7,500. Architects, McIlvain & Roberts, Land Title Building. Owner, I. C. Dutton, Fifty-fourth and Overbrook avenue. Stone, 2½ stories, 37x35 feet, slate roof, hot air heating, electric lighting. Contract awarded to J. T. Rippin, 3417 Hamilton street.

Manufacturing Building (alt. and add.), Eleventh and Washington avenue. Architect, Werner Trumbauer, Crozer Building. Owners, John Wyeth & Brothers, on premises. Brick and concrete, consists of fences, walls and gates. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

Convent, Twenty-ninth and Dickinson sts. Architects, Ed. F. Durang & Sons, Twelfth and Chestnut streets. Owners, St. Gabriel's R. C. Church, on premises. Brick and stone, 2 stories, slate roof, hot water heating, electric lighting. Contract awarded to William J. McShane, 417 South Thirteenth street.

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PENNSYLVANIA Construction News

Packing House, Media, Pa. Architect, Walter Smedley, Stephen Girard Building. Owners, C. E. Allen, Media, Pa. Stone and brick, 3 stories, 48x90 feet, slag roof, enamel brick, metal lath, water proofing. Architect received bids May 26th.

School, White's Ferry, Pa. Architects, Balinger & Perrot, 1211 Arch street, Phila. Owners, Industrial School for Boys, care Rev. M. J. Hoban, Scranton, Pa. Brick and stone, fireproof, 3 stories and basement, 153x194 feet, slate and slag roof (heating and lighting, reserved), damp proofing, metal lath, safety treads, rolled steel partitions, kalamein doors. Architect taking bids due June 5th. The following are figuring: Cramp & Co., Denckla Building; George A. Fuller & Co., Morris Building, of Phila.; Amsterdam Building Co., 43 West Twenty-seventh street, New York City; Kehoe & Mowrey, John Curtis Co., J. A. Schmitt Sons, E. T. Long & Co., Shepherd Construction Co., all of Wilkes-Barre, Pa.; Ed. S. Williams, M. J. Ruddy, H. Beilman Sons and H. L. Campbell, all of Scranton, Pa.; Fink & Seidle, of Reading, Pa.

Residences (4), Reading, Pa. \$18,000. Owner, Miss Mayer, Reading, Pa. Brick, stone trimmings, 3 stories, tin roof, hot air heating, gas and electric lighting. Plans in progress.

Odd Fellows' Hall, Chester, Pa. \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Upland Lodge of Odd Fellows, No. 253, Chester, Pa. Stone and terra cotta, 3 stories, 50x110 feet, slag roof, steam heating, gas and electric lighting. Architect taking bids. The following are figuring: William Ward, Howarth Building; A. P. Sheaf, 302 East Fifth street; V. Mercadante, 119 West Third street; Harry Slauter, Chester, Pa.

Residences (9), Bethlehem, Pa. \$27,000. Architects, Leh & Bitting, South Bethlehem, Pa. Owner, Nathan Fritch, Fourth street, South Bethlehem, Pa. Brick, 2½ stories, 15x42 feet each, slate roof, hot air heating, gas and electric lighting. Owner taking bids.

Residence, Bethlehem, Pa. \$3,200. Architects, Leh & Bittin, South Bethlehem, Pa. Owner, C. S. Lyons, Bethlehem, Pa. Brick, 2½ stories, 23x27 feet, tile and slate roof, hot water heating, gas and electric lighting. Plans in progress. Owner taking bids.

Apartment House, Reading, Pa. \$6,000. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, George Tyson, 335 South Fifth street, Reading, Pa. Brick, stone trimmings, 3 stories, tin roof, hot water heating, gas and electric light. Contract about to be awarded.

Cottage, Elizabethtown, Pa. Architects, Zantzinger, Borie & Medary, Northeast corner Fifteenth and Walnut streets, Phila. Owners, Grand Lodge, F. and A. M., Broad and Arch sts., Phila. Stone, 3 stories, 80x100 feet, slate roof, hot water heating, electric lighting, metal sash and frames, metal lath, damp proofing. Architects taking revised bids due June 2d. The following are figuring: J. Sims Wilson, 1125 Brown street; R. C. Balinger Co., 218 North Thirteenth street; J. Myers & Sons, Witherspoon Building; A. R. Raff, 1635 Thompson street; Armstrong & Latta, Land Title Building; Pomeroy Construction Co., 1609 Ranstead street; H. H. Burrell, 1202 Chancellor street; F. E. Wallace, 1210 Sansom street; Pringle Borthwick, 8018 Germantown avenue; Graham Campion Co., Heed Building, all of Phila.; Josiah C. Hall, Huntingdon, Pa.; J. P. Brenneman, Lancaster, Pa.; Stokes Bros., 6723 Musgrave st., Phila.; Wm. H. Eddleman & Sons, 453 Greene lane, Roxborough, Phila. (Heating and lighting reserved).

Residence, Haverford, Pa. \$20,000. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, Howard R. Eisenbrey, Harrison Building. Stone, 2½ stories, 65x35 feet, wing 24x35 feet, slate roof, hardwood floors, heating undecided. Plans in progress.

Farm Building (alt. and add.), Broomall, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Phila. Owner, Norman Cantrell on premises. Stone and plaster, 2 stories, shingle roof (heating and lighting, reserved). Architect taking bids due May 28th. The following are figuring: H. E. Grau Co., 1709 Sansom street; A. Whitehead, 1624 Latimer street; J. E. Kearney, 327 North Sixth-third street; A. L. Fretz & Sons, 1222 Chancellor street, all of Phila.; Mowrer Bros., Merion, Pa.; W. J. Roberts, Llanerch, Pa.

Residence, Wayne, Pa. \$7,500. Architect, private plans. Owner, H. W. Massey, Jr., 427 Real Estate Trust Building, Phila. Hollow tile and plaster, 2½ stories, 30x34 feet, steam heating, electric lighting. Builder H. C. Wendell, 437 Real Estate Trust Building, Phila., is taking sub-bids.

Office Building and Freight Sheds, Allegheny, Pa. Architect, Mr. Devlin, Maintenance of Ways, Broad Street Station. Owner, Pennsylvania Railroad Co., Broad Street Station. Brick, steel and concrete, 1 and 3 stories, 41x128 feet and 128x893 feet, slag roof (heating, lighting and elevators, reserved), water proofing, enameled glass brick, steel rolling shutters, metal frames and sash. Owners taking bids due June 10th. Roydhouse-Arey Co., Fidelity Building, Phila., are figuring, in addition to those previously.

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Residence, Melrose Park, Pa. Architects, McIlvain & Roberts, Land Title Building, Phila. Owner, Robert N. Whinney, care of F. D. Kramer & Sons, Phila, Sixteenth and Spring Garden streets. Stone and plaster, 2½ stories, 43x29 feet and 16x12 feet, tile roof, canvas roof, hot water heating, electric lighting, white oak floors, tile work. Architect taking bids due May 27th. The following are figuring: Specht & Sperry, Heed Building; Graham-Campion Co., Heed Building; F. B. Davis, 240 North Sixteenth street; Oak Lane Park Building Co., Oak Lane, Phila.; C. L. Hemmerly, Oak Lane, Phila.; W. D. Lukens, North Wales, Pa.; John Morrow Construction Co., 308 South Twelfth street; W. J. Gruhler, 219 High street.

Residence, Drexel Hill, Pa. Architects, Shore & Dodge, 608 Chestnut street. Owner, Thomas T. Wolfenden, Millbourne, Pa. Hollow tile and plaster, 2½ stories, 30x40 feet, asbestos shingle roof, gas and electric lighting, hardwood floors (hot water heating and electric work, reserved). Architect received bids May 25th.

Residence, Haverford, Pa. \$25,000. Architects, Duhring, Okie & Zeigler, Bailey Bldg., Phila. Owner, Charles R. Wentz, Land Title Building, Phila. Stone, 2½ stories, 68x35 feet, wing 29x30 feet, shingle roof, hot water heating, electric lighting, white oak floors. Architect taking revised bids due June 1. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; F. B. Davis, 240 North Sixteenth street; J. Sims Wilson, 1125 Brown street, Phila.; Gray Bros., Rosemont, Pa.; George Croll, Rosemont, Pa.; J. E. Kearney, 327 North Sixty-third street; I. A. Dunkelberger, 71 East Herman street, Phila.

School, East Greenville, Pa. \$30,000. Architects, Hauer & Mowere, 3110 Columbia avenue, Phila. Owner, School Board, E. E. Erb, Secretary, East Greenville, Pa. Brick and brownstone trimmings, 2 stories, 81x57 feet, Star, Bangor or Washington vein slate roof, slate blackboards, water proofing, reinforced concrete floors (plenum system of heating and ventilating and electric work, separate bids. Owners taking bids due May 28th. The following are figuring: Alexander Chambley, 243 South Tenth street; J. Paul Emrey, North Wynnefield, Phila.; J. A. Nagle, Allentown, Pa.; Butz & Clader, Allentown, Pa.; W. A. Stein, South Bethlehem, Pa.; W. H. Gankewere, Allentown, Pa.; H. J. Wenzelberger, Phillipsburg, N. J.; F. Goldsmith, Catasqua, Pa.; Ochs Construction Co., Allentown, Pa.; Berry-Goodwin Co., Drexel Building, Philadelphia, Pa.

Residence (alt.), Bethlehem, Pa. \$50,000. Architects (associated), A. W. Leh, South Bethlehem, Pa., and Neff & Thames, Heed Building, Phila. Owner, Charles M. Schwab, 111 Broadway, New York City. Brick and Hummelstown brownstone, 3 stories, tile roof, casement windows, expanded metal lath, electric lighting, marble and tile work. Architects taking bids due June 2nd. The following are figuring: James G. Doak & Co., Crozer Building; Charles McCaul Co., 1713 Sansom street; John N. Gill & Co., Heed Building; John Morrow Construction Co., 308 South Twelfth street, all of Phila.

Playground, Bala, Pa. Architect, Ralph E. White, Pennsylvania Building, Phila. Owner, Lower Merion Township Commissioners, G. C. Anderson, Clerk, Mahan Building, Ardmore, Pa. Consists of grading, sodding, drainage, comfort building, shelters, etc. Owners taking bids due June 2nd, at noon. Plans may be obtained from Architect.

Playground, Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Phila. Owner, Lower Merion Township Commissioners, G. C. Anderson, Clerk, Mahan Building, Ardmore, Pa. Consists of comfort building, shelters, etc. Owners taking bids due June 2nd, at noon. Plans may be obtained from Architect.

Residence, Lansdowne, Pa. Architect, H. M. Pedricks, P. O. Building, Darby, Pa. Owner, A. T. Hill, Lansdowne, Pa. Stone and plaster, 2* stories, 29x41 feet, shingle roof, steam heating, electric lighting, hardwood floors. Architect taking bids due May 29th. The following are figuring: William R. Dougherty, 1610 Sansom street, Phila.; E. E. Hollenback, Fifteenth and Race streets, Phila.; Julius Nelson, Darby, Pa.; H. Lockhart, Darby, Pa.; Joseph Lowden, Lansdowne, Pa.; J. K. Ingram, Lansdowne, Pa.; W. D. K. Wilson, Drexel Hill, Pa.; W. J. Irwin, 8927 Kingsessing avenue, Phila.

Mining Building, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Phila. Owners, Pennsylvania State College, State College, Pa. Brick and stone, 3 stories, 76x135 feet, slate roof (heating and lighting, reserved), water proofing, metal lath, metal frames and sash. Architect taking bids due May 28th. The following are figuring: R. C. Ballinger & Co., 216 North Thirteenth street; Henry L. Brown, 1714 Sansom street; J. Myers & Sons, Witherspoon Building; Irwin & Leighton, 126 North Twelfth street; William R. Dougherty, 1610 Sansom street; F. L. Hoover & Son, 1023 Cherry street; Horace H. Burrell, 1204 Chancellor street; F. Roe Searing, Perry Building; Pringle Borthwick, 8018 Germantown avenue; Francis J. Boas, 201 North Broad street; Stacy Reeves & Sons, 2011 Market street; J. E. & A. L. Pennock, Land Title Building; Wells Construction Co., Witherspoon Building; Alexander Chambley, 243 South Tenth street, all of Philadelphia; L. O. Bouquin, Oil City, Pa., and Fink & Seidle, Colonial Trust Building, Reading, Pa.

Residence, Lancaster, Pa. Architect, C. Emelen Urban, Woolworth Building, Lancaster, Pa. Owner, architect. Hollow tile, stone and cement, 2½ stories, 28x60 feet; slate or tile room, warm air heating, hardwood floors. Plans in progress.

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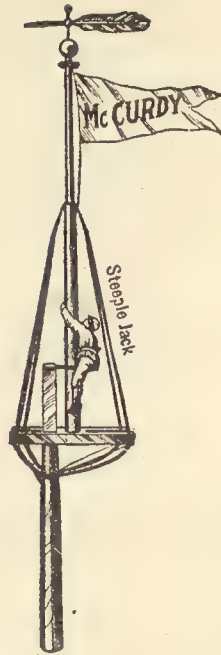
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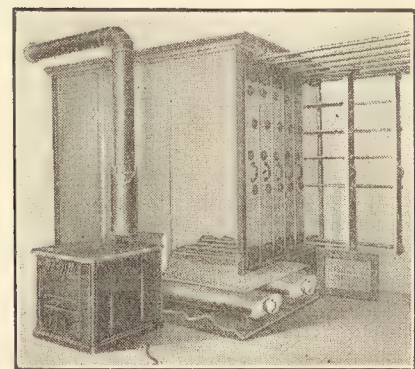
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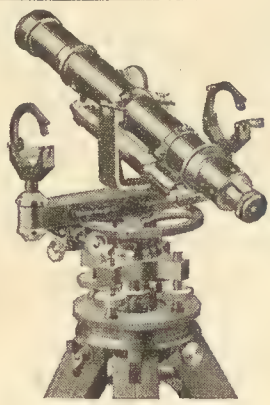
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Contracts Awarded

School Building, Cynwyd, Pa. \$42,073. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Phila. Owner, Lower Merion Township School Board, care of W. J. Byrnes, Ardmore, Pa. Brick, stone and steel, fireproof, 2 stories, 46x130 feet, slag roof, metal lath (heating and electric work, separate bids). Contract awarded to James H. Wells, Heed Building, Phila.

Apartment House, Bryn Mawr, Pa. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Phila. Owner, N. P. Sinclair, Real Estate Trust Building, Phila. Brick and concrete, fireproof, 6 stories, 70x167 feet, tile roof, electric lighting, hardwood floors, hot water heating, damp proofing and water proofing, electric elevators. Contract awarded to George & Brost, 277 South Eleventh street, Phila., who are taking sub-bids on all lines.

Residences (2) Highland Park, Pa., \$10,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, J. & C. H. Schmid, 1818 South Fifteenth street, Philadelphia. Stone, 2½ stories, 29x39 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to V. Mercadante, 119 West Third street, Chester, Pa.

School (add.), Norristown, Pa., \$50,000. Architect, Oliver Randolph Parry, 1723 Chestnut street, Philadelphia. Owners, Board of Education, Norristown, Pa. Brick, fireproof, 2 stories, 30x76 feet, slate roof, steam heating. Lowest bids were submitted by F. Roe Searing, Perry Building, Philadelphia. Bid No. 1, \$47,897; bid No. 2, \$39,490.

Residence (alt. and add.), Rydal, Pa., \$3,500. Architect, Robert B. Cridland, Bulletin Building, Philadelphia. Owner, Miss Mable Bayard, on premises. Brick and plaster, 3 stories, 25x24 feet, tin roof, electric

lighting, hardwood floors. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

Church, Bryn Athyn, Pa. Architects, Cram, Goodhue & Ferguson, New York City. Owners, Church of New Jerusalem, of Bryn Athyn, Pa. Stone, 1 story, 100x150 feet, slate and copper roof, electric lighting, steam heating, waterproofing. Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Philadelphia.

Residence (alt. and add.), Haverford, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, William Bradway, Haverford, Pa. Stone and frame, 2½ stories, tin and shingle roof, oak floors, electric lighting (heating reserved). Contract awarded to Smith-Hardican Company, 1606 Cherry street, Philadelphia.

Field House, South Bethlehem, Pa., \$12,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Lehigh University, South Bethlehem, Pa. Sand lime bricks and concrete, 3 stories, 75x41 feet, slag roof, steam heating, gas and electric lighting, concrete floors. Contract awarded to Charles McCaul Company, 1713 Sansom street, Philadelphia.

Church, Lansdale, Pa., \$30,000. Architects, Neff & Thames, Heed Building, Phila. Owner, First Baptist Church, Lansdale, Pa. Stone, 1 story, slate roof, steam and vapor heating, electric lighting, metal lath, membrane system of water proofing. Contract awarded to Alexander Chambley, 243 South Tenth street, Philadelphia.

Buildings (2), Betzwood, Pa. Architects, Stearns & Castor, Stephen Girard Building. Owners, Lubin Manufacturing Company, Betzwood, Pa. Plaster, 1 story, 40x60 feet. Contract awarded to F. A. Havens Company, 845 North Ninth street, Philadelphia.

Fisher, Denckla Building, all of Phila.; J. S. Rogers Co., Moorestown, N. J.; Rome Corporation, 105 West Fortieth street, New York City; Langan Engineering & Construction Co., 75 Montgomery street, Jersey City, N. J.; C. B. Beaumont, 286 Fifth avenue, New York City; S. W. Mather & Son, Trenton, N. J.; Horace H. Moore, Spring Lake, N. J.; Storms & Co., Newark, N. J.; I. Harper Clayton, Trenton, N. J.; Gustave Dekimpe, 70 Hudson street, Hoboken, N. J.; J. F. Walsh & Bro., 33 West Forty-second street, New York City; W. A. Richman, Moorestown, N. J.

Factory, Camden, N. J. Architects, Borzner & Wood, 721 Walnut street, Phila. Owner, T. S. Pancoast, Third and Market streets, Camden, N. J. Brick, 2 stories, 30x45 feet, slag roof, electric lighting. Owner taking bids due May 27th. Stacy Reeves & Sons, 2011 Market street; Harry Gill, Jr., 2515 Germantown avenue; D. E. Boyer Co., 523½ Arch street, Camden, N. J.; John Welsh, Camden, N. J.; J. W. Draper, 1445 Mt. Ephraim avenue, Camden, N. J.; H. G. Hinchman, 626 Penn street, Camden, N. J., are figuring.

Residence (alt. and add.), Princeton, N. J. \$18,000. Architect, Frederick J. Sterner, 139 East Nineteenth street, New York City. Owner, Joseph Garneau, 19 West Twenty-fourth street, New York City. Brick and stucco, 3 stories, 72x60 feet, tin roof, electric lighting, hot water heating, parquet boars, tile work. Architect taking bids due May 27th. George & Borst, 277 South Eleventh street, are figuring.

Dining Building (Add.), Glen Gardner, N. J. \$10,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey. Brick, concrete and stucco, 2 stories, 39x50 feet, slag roof, steam heating, electric lighting. Plans in progress.

Employees' Cottage, Glen Gardner, N. J. \$10,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey. Hollow tile and stucco, 2½ stories, slate or tile roof, steam heating, electric lighting. Plans completed. Bids will be taken as soon as plans are approved.

Residence, Pitman, N. J. \$4,500. Architect, H. A. Brown, Beverly, N. J. Owner, Gurney Scholl, Pitman, N. J. Frame, 2 stories, shingle roof, hot air heating, gas and electric lighting. Plans in progress.

Cow Barn, Glen Gardner, N. J. \$12,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey. Stone and frame, 2 stories, slate roof, electric lighting, concrete floors. Revised plans in progress.

Residences (alt. for Apartments), Trenton, N. J. \$10,000. Architect, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, Mrs. Thomts Carney, 221 North Warren street, Trenton, N. J. Brick, 3 stories, 44x82 feet, slag roof, steam heating, gas and electric lighting. Revised plans in progress.

Residence, Flemington, N. J. \$6,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, E. B. Allen, Flemington, N. J. Hollow tile and stucco, 2 stories, 40x36 feet, shingle roof, gas and electric lighting, hardwood floors (heating undecided). Revised plans in progress.

Residence (alt.), Burlington Township, N. J. \$2,000. Architect, H. A. Brown, Beverly, N. J. Owner, name withheld. Frame, 2½ stories, 30x50 feet shingle roof. Plans in progress.

Store House, Morris Plains, N. J. \$15,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, New Jersey State Insane Asylum. Brick, 2½ stories, 46x85 feet, slag roof, electric lighting, 4 elevators. Plans in progress. Owners will advertise for bids in two weeks.

Parish House, Woodbury, N. J. Architect, J. Franklin Stuckert, 112 North Forty-third street, Phila. Owner, Christ Church, Woodbury, N. J. Frame and plaster, 2 stories and

NEW JERSEY

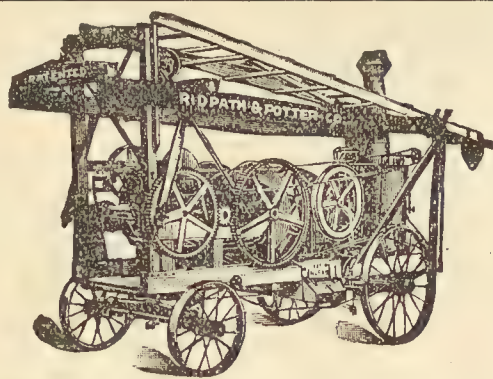
Construction News

Normal School (alt.), Trenton, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State Board of Education, Dr. Green, Trenton, N. J. Consists of iron stairs, toilet fixtures and composition floors. Owners taking bids due June 9th.

Stable and Garage, Trenton, N. J. \$22,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Petry Express & Storage Co., East State street, Trenton, N. J. Brick, 2 stories, 50x90 feet and 75x116 feet, slag roofs, steam heating, electric lighting, concrete floors, elevators. Architects taking bids due May 27th. The following are figuring: Samuel Wiley, Carl

Petry, David Teitz & Son, Carl Poinsett, William Musson, James Dougan, S. W. Mather & Sons, W. J. & J. H. Morris, L. Levy, J. W. Lanning, all of Trenton, N. J.

Cottages (4), Skillman, N. J. \$90,000. Architect, George S. Drew, State Capitol, N. J. Owner, State of New Jersey State Village for Epileptics. Brick, 2½ stories, slate and slag roof, steam heating, electric lighting, composition floors, metal lath. Owners taking bids due June 5th. The following are figuring: James H. Wells, Heed Building; Edward Fay & Son, 2 South Mole street; F. L. Hoover & Sons, 1023 Cherry street; Berry-Goodwin Co., Drexel Building; Metzger &



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RIDPATH & POTTER CO.

587 Bourse Building

Philadelphia, Penna.

basement, 56x58 feet, slate and slag roof (heating and lighting, reserved), damp proofing. Revised plans in progress.

Hotel and Stores, Atlantic City, N. J. Architects, Hewitt, Granger & Paist, Bullitt Building, Phila. Owners, The Newlin-Haines Co., Atlantic City, N. J. Brick, stone and terra cotta, 12 stories, 125x283 feet, slag roof, electric lighting, steam heating, marble interior, water proofing, concrete, hollow tile fire proofing, power plant. Architect taking bids due May 29th. Thompson-Starret Co., 49 Wall street, New York City, is figuring.

Church, Perth Amboy, N. J. \$100,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owner, St. Stephen's R. C. Church, Perth Amboy, N. J. Stone, 1 and 2 stories, 75x175 feet, slate roof, hot water heating, electric lighting. Plans in progress. Bids in tow weeks.

Residence, Ventnor, N. J., \$7,000. Archi-

tect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Harry G. Scull, Sheen Building, Atlantic City, N. J. Hollow tile, brick and stucco, 2½ stories, 28x40 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Bungalow, Ventnor, N. J., \$10,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner's name withheld. Brick, hollow tile and stucco, 2 stories, 36x110 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Residences (2), Atlantic City, N. J., \$6,000. Architect, J. R. Ogden, Bartlett Building, Atlantic City. Owner, S. E. Crowley, 14 South Tennessee avenue, Atlantic City. Brick, 2 stories, 31x41 feet, slag roofs, steam heating, gas and electric lighting. Owner is taking bids.

NEW JERSEY

Contracts Awarded

Hotel (alt. and add.), Trenton, N. J. \$15,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Star Hotel, Samuel Levine, 163 South Broad street, Trenton, N. J. Brick, 4 stories, 20x90 feet, slag roof, steam heating, gas and electric lighting, tile work, trunk life. Contract for mason work awarded to J. W. Lanning, Trenton, N. J., and carpenter work to A. Trier, Trenton, N. J.

School, Beverly, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, Board of Education, Beverly, N. J. Brick, 2 stories, 50x80 feet, slate roof, hot air heating, gas and electric lighting. Contract awarded to J. E. Kloster, Beverly, N. J.

Armory, New Brunswick, N. J. \$25,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey. Brick, 1½ stories, slag roof, steam heating, electric lighting, metal lath. Contract awarded to Langan Engineering & Construction Co., 75 Montgomery street, Jersey City, N. J.

Residence, Trenton, N. J., \$12,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, W. L. Brock, Canal street, Trenton, N. J. Frame and stucco, 2½ stories, tile roof, hot water heating, electric lighting, hardwood floors, metal lath. Contract awarded to Burton & Burton, American Mechanics Building, Trenton, N. J.

Garage, Langhorne, Pa. \$4,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Ellwood W. Watson, Langhorne, Pa. Stone, 1 story, 24x30 feet, slate roof, steam heating, electric lighting, concrete floors. Contract awarded to Joseph Taylor, Langhorne, Pa.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Henry Humphreys, Merchantville, N. J. Stone and plaster, 2½

stories, 42x45 feet, shingle roof, hot water heating, electric lighting, canvas roof. Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Armory, Asbury Park, N. J. \$25,300. Architect, George S. Drew, State House, Trenton, N. J. Owner, State of New Jersey, care of Architect Brick, 1½ stories, slag roof, steam heating, electric lighting. Contract awarded to Berry-Goodwin Co., Drexel Building, Phila.

Residence (alt. and add.), Bridgeton, N. J. \$2,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, William A. Logue, Bridgeton, N. J. Frame, 2 stories, shingle roof, gas and electric lighting, extension to heating system. Contract awarded to maier & Bros., Bridgeton, N. J.

Residence and Stores, Woodbury, N. J. \$12,000. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, H. Polsky, Woodbury, N. J. Brick, 2 stories, 90x66 feet, slag roof, electric lighting (hot water heating, reserved). Contract awarded to William Krug, Pitman, N. J.

Office Building, 30 North Third street, Camden, N. J. \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Architects. Brick and hollow tile, 2 stories, 20x61 feet, slag roof, electric lighting (heating, reserved). Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Bank (add.), Swedesboro, N. J. \$20,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Swedesboro Trust Co., Swedesboro, N. J., Charles M. Ware, Treasurer. Stone and marble, 2 stories, 43x40 feet, slag roof, gas and electric lighting, tile work, composition floors (heating, reserved). Contract awarded to W. Beaumont, Stephen Girard Building, Phila., Pa.

Apartment House, South Maryland avenue, Atlantic City, N. J., \$30,000. Architects, Shull & Berry, Hurphrys Building, Atlantic City. Owner, J. F. Eilenberg, 122 South

Maryland avenue, Atlantic City. Brick, stone trimmings, 3 stories, 42x148 feet, slag roof, hot water heating, gas and electric lighting, tile work. Contracts awarded as follows: Carpenter work, Ed. Collins; plumbing, F. Walsh; plastering, M. J. Costello; electric work, Rogers & Willetts; brick work, George Benson; cement work, W. Mastinett, all of Atlantic City, N. J.

Pavilion and Comfort Station, Ventnor, N. J., \$15,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, City of Ventnor, N. J. Stucco, 1 story, 60x70 feet, tile roof, electric lighting, Pressed cement tile floors. Alex. W. Dick, Ventnor, N. J., submitted the lowest bid. Plans may be revised.

School, Elmer, N. J. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, Board of Education, care of E. Bostwick, Elmer, N. J. Brick, 2 stories, 51x80 feet, slate roof, steam heating, electric lighting, safety treads. Lowest bid submitted by D. E. Boyer Company, 423½ Arch street, Camden, N. J., \$15,000.

Car Barn, West Collingswood, N. J. Architect, private plans. Owner, W. C. Haines, West Collingswood, N. J. Plaster, 2 stories, 30x50 feet, slag roof, electric lighting. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Miscellaneous Construction News

Residences (8), Wilmington, Del., \$16,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Edward G. Cook, Ninth and Market streets, Wilmington, Del. Brick, stone trimmings, 2½ stories, 15x40 feet each, slate and slag roofs, hot air heating, gas and electric lighting. Architect ready for bids.

Factory Building, Wilmington, Del. Architect, private plans. Owner, J. E. Rhodes & Sons, Eleventh street and Baltimore and Ohio Railroad, Wilmington. Brick, 3 stories, 60x150 feet, slag roof, electric lighting. Owner taking bids. F. A. Havens & Co., 845 North Nineteenth street, Philadelphia, are figuring.

Municipal Building, Waterbury, Conn. Architect, Cass Gilbert, 11 East Twenty-fourth street, New York City. Owners, Building Commission, Waterbury, Conn. Brick, stone and terra cotta, fireproof, 3 stories, 212x202 feet, composition roof, steam heating, electric lighting, composition floors, damp-proofing, waterproofing, metal lath, elevators, safety treads. Architects taking bids, due May 28th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring, in addition to those previously reported.

Hospital, Cleveland, Ohio. Architect, William S. Lougee, Marshall Building, Cleveland, Ohio. Brick, terra cotta, sandstone, 4 stories, 298x59 feet, composition roof, waterproofing, steel sash and casements, metal lath, safety treads, tile work, composition floors (heating and electric work reserved). Architect has received bids.

Miscellaneous Contracts Awarded

Service Building, Wilmington, Del. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, H. Rodney Sharp, Wilmington, Del. Stone, 2½ stories, 65x35 feet and 22x40 feet, shingle roof, vapor vacuum heating, electric lighting.

Consists of boiler house, garden house, garage, stable and laundry. Contract awarded to Henry L. Brown, 1714 Sansom street, Philadelphia.

Residences (3), Wilmington, Del., \$8,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Mrs. S. J. Thomas, Wilmington, Del. Brick, 2½ stories, 22x35 feet, slag and tin roof, hot air

heat, gas and electric lighting. Contract awarded to Charles Brice, Twenty-ninth and Washington streets, Wilmington, Del.

Store Front, 549 to 557 North Gay street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, I. Benesch & Sons, on premises. Copper and mahogany. Contract awarded to Morrow Brothers, Baltimore, Md.

Permits for New Buildings

O is the abbreviation for owner. **C** is for contractor.

Philadelphia

I. C. Halton (O), Fifty-fourth street and Overbrook avenue. **J. T. Rippin (C),** 3417 Hamilton street. Cost, \$7,500. Residence, stone, 3 stories, 37x56 feet, Fifty-fourth street and Overbrook avenue.

C. B. Maguire (O), 1314 Arch street. Cost, \$64,000. Sixteen dwellings, brick, 2 stories, 26x32 feet, Cresheim road and Mount Airy avenue.

Archbishop E. F. Prendegast (O), Eighteenth and Race streets. Melody & Keating (C), Bailey Building. Cost, \$46,000. Convent, brick, 1 story, 60x36 feet, Twenty-second and Green streets.

John Bayne (O), 2223 Amber street. **G. N. Formosa (C),** 711 Butler street. Cost, \$3,100. One dwelling, brick, 2 stories, 15x42 feet, Amber street and Susquehanna avenue.

German Protestant Home (O), Lawndale, Pa. **Koelle Speth Co. (C),** Twenty-sixth and Oxford streets. Cost, \$40,000. Home, brick, 3 stories, 34x105 feet, Lawndale, Pa.

Stotte Bros. (O), 1619 Allen Grove street. Cost, \$17,600. Eight dwellings, brick 2 stories, 15x45 feet, Brill street and Frankford avenue.

Evan Baptist Church (O), 230 West Coulter street. **J. F. Trent (C),** 1830 Montgomery avenue. Cost, \$12,200. Church, stone, 2 stories, 50x70, 230 West Coulter street.

Louis Sasensky (O), Eighty-fourth street and Suffolk avenue. **Louis Spheen (C),** Seventy-eighth street and Bartram avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 16x28 feet, Eighty-fourth street and Sugolk avenue.

Germantown Hospital (O), Penn and Chew streets. **James G. Doak & Co. (C),** Crozer Building. Cost, \$80,000. Home, brick, 4 stories, 40x104 feet, Penn and Chew streets.

T-Square Club (O), 1204 Chancellor street. **Smith-Hardican Co. (C),** 1606 Cherry street. Cost, \$11,000. Club House, brick, 3 stories, 31x53 feet, 214 South Camac street.

W. Fisher (O), 3621 North Fifth street. Cost, \$1,800. Store, brick, 2 stories, 16x42 feet, Frankford avenue and Bristol street. Cost, \$34,000. Twenty Dwellings.

C. F. Ely (O), Somerton, Pa. Cost, \$3,800. Dwellings, brick, 2 stories, 28x40 feet. Cemetery lane and Henchel street.

John Swoyser (O), Mitchell and Durfor streets. Cost, \$1,600. Residence, brick, 2 stories, 16x40 feet, Pechin and Ripka streets.

W. F. Metzger (O), Thirteenth and Cherry streets. **Irwin & Leighton (C),** 126 North Twelfth street. Cost, \$170,000. Manufacturing Building brick, 9 stories, 78x65 feet, Thirteenth and Cherry streets.

Dorner-Tretbar Co. (O), Camden, N. J. **Ed. Geschke (C),** Collingswood, N. J. Cost, \$16,000. Manufacturing building, brick, 2 stories, 40x100 feet, Front and Venango streets.

Egnel & Saidel (O), 1023 Jackson street. Cost, \$30,000. Ten dwellings, brick, 2 stories, 16x45 feet, 5100 North Camac street.

M. Kosousky (O), 4727 North Third street. **A. Ruhland (C),** Fourth and Rockland streets.

Cost, \$2,120. Dwelling, brick, 2 stories, 16x40 feet. 4729 North Third street.

M. Rosengrane (O), 340 North Forty-second street. **J. G. Ruff (C),** 823 Cherry street. Cost, \$1,800. Dwelling, brick, 2 stories, 16x26 feet, 350 North Forty-second street.

John Stevens (O), 1218 Shackamaxon st. **J. & W. Greene (C),** 990 North Marshall street. Cost, \$3,325. Factory, 1216 Shackamaxon street.

V. J. Magnaret (O), No. 3222 E street. **H. A. Myers (C),** 2029 East Wishart street. Cost, \$57,500. Twenty-three dwelling, brick, 2 stories, 15x30 feet, Front street and Allegheny avenue.

E. P. Filmore (O), 908 Chestnut street. **F. C. Hood (C),** 908 Chestnut street. \$3,000. Dwelling, brick, 3 stories, 26x35 feet, Thirteenth street and Medary avenue.

W. F. Rafferty (O), 1918 Ontario street. Cost, \$22,400. Fourteen dwelling, brick, 2 stories, 14x27 feet, Thaper and Jasper streets.

Stenton Park Dairies (O), Sixteenth and Courtland streets. **J. De Frehm (C),** 4226 Sydenham street. Cost, \$6,000. Dairies, brick, 1 story, 34x60 feet, Sixteenth and Courtland streets.

P. A. B. Widener (O), Land Title Building. **G. A. Fuller Co. (C),** Morris Building. Cost, \$2,860,000. Office Building, Brick, 21 stories, 150x200 feet, Juniper and Chestnut streets.

H. C. Messimer (O), 124 Kolas street. Cost, \$5,000. Two dwellings, brick, 3 stories, 16x25 feet. Markle street and Ridge avenue.

C. West Co. (O), 1034 Market street. Cost, \$7,200. Two dwellings, brick, 2 stories, 16x42 feet, Harrison and Horrocks streets.

Women's Homoeopathic Hospital (O), Broad and Fitzwater streets. **A. Whitehead, Inc.,** 1624 Latimer street. Cost, \$5,160. Laundry, brick, 1 story, 40x30 feet, Broad and Fitzwater streets.

T. W. Rogers (O), 1011 Chestnut street. Cost, \$5,000. Apartment House, brick, 3 stories, 17x87 feet, Sixteenth street and Columbia avenue.

W. S. Bauer (O), Lincoln Drive and Hortter street. Cost, \$20,000. Two dwellings, brick, 3 stories, 30x38 feet, 714 Lincoln Drive. Cost, \$15,000. Three dwellings. Cost, \$10,000. One dwelling.

Alexander McIlhenny (O), 1230 South Twenty-eighth street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x47 feet, Wharton and Newkirk streets. Cost, \$2,000. Store and dwelling.

Mrs. J. Smith (O), 3114 Midvale avenue. **I. A. Dunkelberger (C),** 71 East Herman street. Cost, \$8,700. Residence, stone, 3 stories, 40x30 feet, Spraguse street and Washington avenue.

Mrs. M. L. Watson (O), Broad and Ellsworth streets. **M. J. Lazaroff (C),** 1418 South Eighth street. Cost, \$5,415. Apartment House, brick, 3 stories, 48x22 feet, 1344 Ellsworth street.

Monument Baptist Church (O), Forty-first and Ludlow streets. **J. F. Trent (C),** 1930 Montgomery avenue. Cost, \$8,000. Church, stone, 1 story, 37x50 feet, Forty-first and Ludlow streets.

Martin Maloney (O), 6900 Spruce street. Cost, \$3,500. One dwelling, brick, 2 stories, 16x30 feet, Sixty-second and Catharine streets. Cost, \$75,000. Twenty-five dwellings.

Edward Stott (O), 5430 Water street. Cost, \$7,200. Two dwellings, brick, 2 stories, 16x43 feet. Front and Tabor streets. Cost, \$5,600. Two dwellings.

Moss & Taylor (O), Fifty-eighth street and Girard avenue. Cost, \$16,200. Six dwellings, brick, 2 stories, 15x30 feet; Fifty-sixth street and Thomas avenue. Cost, \$13,500. Five dwellings. Cost, \$8,100. Three dwellings. Cost, \$21,600. Eight dwellings. Cost, \$35,100. Thirteen dwellings. Cost, \$7,000. Two dwellings. Cost, \$21,000. Six dwellings.

T. J. Henry (O), 233 Fitzwater street. **Eagle Construction Co.,** Drexel Building. Cost \$2,000. Dwelling, brick, 3 stories, 16x31 feet, Fourth and DeLancey streets.

Alterations and Additions

John Braun & Sons (O), Twenty-third and Turner streets. **A. Raymond Raff (C),** 1636 Thompson street. Cost, \$1,000. Factory, Twenty-third and Turner streets.

Pedrich Machine & Tool Co. (O), 3642 North Lawrence street. **H. A. L. Smink (C),** 5320 North Twelfth street. Cost, \$1,200. Machine shop, 3640 North Lawrence street.

Estate of G. B. Wilson (O), Pennsylvania Building. **H. C. Dahl (C),** 231 South Eighth street. Cost, \$3,000. Business Rooms, 25 South Eighth street.

Miss Mary Potts (O), Germantown. **W. C. Wright (C),** 22 Harvey street. Cost, \$2,000. Residence, Hortter street and Lincoln Drive.

Standard Ice Co. (O), Twenty-seventh and Lombard streets. **W. H. Gravelle (C),** Crozer Building. Cost, \$9,000. Boiler house, Twenty-seventh and Lombard streets.

Philadelphia & Reading Railway Co., Twelfth and Market streets. **F. W. Van Loon (C),** Denckla Building. Cost, \$14,000. Station, Twelfth and Market streets.

M. Martin Estate (O), 908 Carpenter street. **Thomas Martino (C),** 1019 South Ninth street. Cost, \$1,200. Store, 908 Carpenter street.

A. Love (O), 1946 Germantown avenue. **H. Wilson (C),** 727 Reed street. Cost, \$1,000. Bakery and dwelling, 1946 Germantown avenue.

J. M. Kennedy, Jr. (O), 1001 Chestnut street. **J. F. Kennedy (C),** 431 West Walnut lane. Cost, \$3,000. Garage, 131 South Twenty-fourth street.

Suburban Laundry (O), 5411 North Water street. **D. H. Sharp Co. (C),** Heed Building. Cost, \$3,000. Laundry, 5411 North Water street.

Langdon Mitchell (O), 2320 DeLancey street. **Joseph Price (C),** 2048 Rittenhouse street. Cost, \$2,200. Dwelling, 2320 DeLancey street.

Sacquoit Silk Mill (O), Hunting Park avenue and Clarissa street. **H. Y. Yerger (C),** 4430 North Nineteenth street. Cost, \$1,500. Garage, Hunting Park avenue and Clarissa street.

Philadelphia Electric Co. (O), Tenth and Chestnut streets. **Carter Paving Co. (C),** Eighteenth street and Fairmount avenue. Cost, \$10,000. Shop, Twenty-sixth and Christian streets.

J. F. Lynch (O), 345 North Sixty-third street. **Ed. Fay & Sons (C),** 2 South Mole street. Cost, \$1,000. Church, Sixty-third and Callowhill streets.

Laird-Shober Co. (O), Nineteenth & Buttonwood streets. **H. H. Burrell (C),** 1204

Chancellor street. Cost, \$8,000. Manufacturing building. Nineteenth and Buttonwood streets.

Mastbaum Bros. & Fleisher (O), North American Building. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$500. Store, 622 Market street.

J. S. Disston (O), Chestnut avenue. Kohle & Megarge (C), 124 East Gorgas street. Cost, \$10,000. Dwelling, Germantown and Chestnut avenues.

Franklin Sugar Co (O), Front and Bainbridge street. Cost, \$3,500. Warehouse, Delaware avenue and South street.

First Presbyterian Church (O), Manayunk, Phila. W. H. Eddleman (C), 453 Greene lane, Roxborough. Cost, \$6,000. Church, Manayunk.

A. C. Messing (O), 1525 Locust street. C. J. W. Platt (C), 1015 Arch street. Cost, \$12,000. Dwelling, 2012 Walnut street.

G. G. Parry (O), Bulletin Building. C. J. W. Platt (C), 1015 Arch street. Cost, \$1,800. Dwelling, 2431 Devon street.

Philadelphia Trust Co. (O), 410 Chestnut street. F. G. Myhlertz (C), 1737 Filbert street. Cost, \$1,200. Store, Twenty-ninth and Market streets.

John Wyeth Bros. (O), Eleventh street and Washington avenue. F. L. Hoover & Sons (C), 1023 Cherry street. Cost, \$1,500. Walls, Eleventh street and Washington avenue.

Firth & Foster (O), Evald and Boston avenues. Fidelity Construction Co. (C), Heed Building. Cost, \$3,000. Dye House, Evald and Boston avenues.

L. Verno (O), Ninth and Kimball streets. Joseph Coluzzi (C), 1724 South Mole street. Cost, \$4,600. Manufacturing building, Ninth and Kimball streets.

Mabel Brundge (O), 526 North Fifty-third street. W. A. Patterson (C), 5333 Vine street. Cost, \$2,175. Stable, 530 North Fifty-third street.

Mrs. Jennie Kay (O), 6341 Old York road. William Freeling (C), 2553 North Eighth street. Cost, \$1,000. Factory, B street and Indiana avenue.

10, 1914, for the general excavation entering into the construction and completion of the New County Building for New Castle County and the New Municipal Building for the City of Wilmington, situated between King street and French street and between Tenth and Eleventh streets, in the City of Wilmington, Delaware; and to be opened publicly and declared by the Commissions in their office.

A separate proposal will be required for each of the two buildings.

Each proposal shall be accompanied by a certified check in the amount of \$500.00.

The Commissions reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of the work will be one or more bonds executed by one or more guarantee or surety companies aggregating in amount 50 per cent. of the amount of the contract.

The contract provides that the work shall be completed within seventy (70) calendar days from the date of notice to start work.

On and after June 1st, the drawings and specifications, the form of contract, the bond and blank forms for proposals may be obtained at the office of the architects, John Dockery Thompson, Jr., and Palmer, Hornbostel & Jones, associated, No. 809 Ford Building, Wilmington, Delaware. One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the architects, and upon the payment of a deposit of \$50.00, this deposit to be forfeited if the drawings and specifications are not returned to the architects in good order before June 15, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

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Secretary of the New Castle County Building Commission and the Wilmington Building Commission.

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NOTICE TO CONTRACTORS!

New County Building for New Castle County and

New Municipal Building for the City of Wilmington.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions, in the Church Building at the corner of Market and 10th streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M., Eastern time, on June 10, 1914, for structural steel and erection entering into the construction and completion of the New County Building for New Castle County and the New Municipal Building for the City of Wilmington, situated between King street and French street, and between Tenth and Eleventh streets, in the city of Wilmington, Del., and to be opened publicly and declared by the Commissions in their office.

A separate proposal will be required for each of the two buildings.

Each proposal shall be accompanied by a certified check in the amount of \$6,000.

The Commissions reserve the right to reject any or all proposals received, if they consider it to the best interests of the county or city so to do.

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The contract provides that the work shall be completed within one hundred and twenty (120) calendar days from the date of notice to start work.

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and blank forms for proposals may be obtained at the office of the architects, John Dockery Thompson, Jr., and Palmer, Hornbostel & Jones, Associated, No. 809 Ford Building, Wilmington, Delaware. One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the Architects and upon the payment of a deposit of \$50.00. This deposit will be forfeited if the drawings and specifications are not returned to the Architect in good order before June 15, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

Plans and specifications will be supplied to material men, sub-contractors and others wishing to submit to the contractors figures for the various classes of work, upon reasonable notice to the Architects and upon the payment of the net cost of the plans and specifications required.

THOMAS F. GORMLEY,

Secretary of the New Castle County Building Commission and the Wilmington Building Commission.

NOTICE TO CONTRACTORS.

NEW COUNTY BUILDING FOR NEW CASTLE COUNTY

and

NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON.

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Editorial Comment

W. S. Lloyd, of the "Ohio Architect, Engineer and Builder," while in Boston recently took occasion to interview Mr. Ralph Adams Cram, whom he refers to as "An Apostle of Gothicism." The subject of Mr. Cram's talk was "Future American Architecture." His views, as stated in the course of the interview and subsequently published in the April number of Mr. Lloyd's magazine, are of exceptional interest.

"The event" in American architectural history, like the signing of the Magna Charta at Runnymede or the Declaration of Independence at Philadelphia, occurred along in the '70's," said Mr. Cram. "Its name was H. H. Richardson, the first great genius in American architecture. Richardson," he says, "will be remembered not as the discoverer of a new style, but as the man who made architecture a living art once more. Eighteen hundred and ninety, and we stand again with a new and revised classic, with McKim as its protagonist, and a new Gothic. The first splits up at once into three lines of development: pure classic, Beaux Arts and Colonial, each vital, brilliant and beautiful in varying degrees. The second was and remains more or less so a taking over of the late Gothic of England and prolonging it into new fields, sometimes new beauties.

* * *

"Another ten years and Mr. Cram finds two new elements enter the field: steel frame construction on the one hand and on the other secessionist. The steel frame he finds the enfant terrible of architecture, but like so many of the genus feels it may grow up to be a serious-minded citizen and a good father. It is not that now; it is a menace, not only to architecture, but to society; but it is young and it is having its fling. If we can make it realize that it is a new force, not a substitute, we shall do well.

"When it contents itself in its own sphere and the municipality says kindly but firmly thus far and no further—the thus being about one hundred and twenty-five feet above street level in the very wise town of Boston—then it may be a good servant.

"The foundation of good architecture is structural integrity; and it does not matter how beautiful a building is, if its columns merely hide the working steel within, if its vast vaults are plaster on steel frame and expanded metal, then it is not architecture, it is scene-painting, and it takes its place with that other scene-painting of the later Renaissance to which we mistakenly apply the name of architecture."

So "there you are," as our interpreter of the times puts it: three kinds of classic, two kinds of Gothic, skeleton frame and secessionist—all operative to-day, each with its strong following, each consummately clever and improving every day."

"No one," says Mr. Cram, "would claim that the day of victory was about to dawn for the Beaux Arts, Gothic or steel frame styles or for any other, for that matter, each is contributing something to the mysterious alembic we are brewing; and we all hope that out of it may come the philosopher's stone that touching inert matter, shall turn it into refined gold—which by the way is the proper function of architecture and all the arts.

"Reduced to its simplest terms, American architecture is seen to have had two epochs. First the attempted conservation of a definite style (which whatever its genesis, had become an essential part of our racial character) and its complete disappearance exactly at the time when the serious and conservative nature of the people of the United States gave place, with almost equal suddenness to a new quality born partly of political independence, partly of new and stimulating natural conditions, partly of the backwash from Continental revolution and above all of the swift working out, at last, of powers latent in the renaissance—reformation itself. Second, the confused activities of many men of many minds, who had cut loose from tradition become moribund."

This then is our architectural past and we naturally ask our pilot, "What then lies before us? From the many things we are doing to-day can you predict anything of the future?"

* * *

"Nor of our future style—that will be what our society makes it, but of society itself. For my own part I think we can; for all that we are doing in architecture indicates the accuracy of the deduction we draw from a myriad other manifestations, namely, that we are at the end of an epoch of materialism, rationalism and intellectualism and at the beginning of a wonderful new epoch, when once more we shall achieve a just estimate of comparative values, when material achievement becomes the slave again and no longer the slave driver, when spiritual intuition drives mere intellect back into its proper and very circumscribed sphere and when religion becomes in the ancient and high sounding phrase, 'One, Holy, Catholic and Apostolic' and assumes again its rightful place as the supreme element in life and action, the golden chain on which are strung and by which are bound together the varied jewels of action.

"What else does it mean that on every hand men now demand in art better things than ever before, and get them, from an increasing number of men whether they are Pagans, Goths or Vandals? What is the meaning of the return to Gothic not only in form but 'in spirit and in truth?' Is it that we are pleased with their forms and wearied with others? Not at all. It is simply this,

that the Renaissance—Reformation—Revolution having run its course and its epoch having reached its appointed term we go back deliberately or instinctively, as life goes back, as history goes back to restore something of the antecedent epoch to wish back something we have lost, to return to the fork in the roads, to gain again the old lamps we credulously bartered for the new."

* * *

Making it somewhat plainer, perhaps, Mr. Cram pictures the present conditions as that of a man who finding himself at the edge of a bridgeless stream instead of leaping from the brink into space retraces his steps, gains his running start and clears the obstacle at a bound.

"That is what we architects are doing," he declares, "when we fall back upon the great past for our inspiration; that is what specifically the Gothocists are particularly doing. We are getting our running start, we are retracing our steps to the Christian middle ages, not that there we remain, but that we may achieve an adequate point of departure; what follows must take care of itself."

From both the Hastings and the Cram expositions of this intricate question it is evident that we are confronted by a problem Sphinx like in its proportion—a riddle by no means easily solved. Both of these most modern of architects with wonderful achievements to their individual credit portray us a nation seeking for a style of architectural expression which both agree has not yet been entirely found and to reach which each points out a different pathway.

* * *

As some of our English cousins who are free to admit they "have been on the same job" for a hundred years or more and are still in the same dilemma, recently asked "why should we as architects talk of style or think of it at all in our practice? Did the Roman architects, asked a member of the British Institute, consciously adopt a style? Did the designers of the aqueducts, or the triumphal arches, or the baths consciously adopt the style in which they worked? As a matter of fact, was each not simply an enthusiastic constructor in full sympathy with the past and the materials at his hand, entering into the problem demanded of him by his day and generation, and, from the basis of the education he had received, interpreting its artistic possibilities? Can we not do as they did—as our engineers and naval architects now do?—and as artists, approach our problems simply as constructors, enthused by the conditions that each problem imposes, and, unconscious alike of our individuality, and of the style we are working in, leave it to those who follow us to recognize the individuality of the work and to catalogue its style?

"It should be sufficient for us that the building is eminently suitable for its purpose, that it has been fearlessly yet faultlessly constructed, and that in its proportions

and color it gives evidence of the pleasure it gave its designer to express."

* * *

We make no apologies for quoting Mr. Cram's interview at such length, the subject matter being its own justification. American architecture is in small danger of lapsing into any servile imitation of European models so long as it can boast such men as Cram, Irving Pond, Hastings, Miles Day and Gilbert.

* * *

New York State passed a law last October, under the provisions of which it is unlawful to roof a factory building with any material other than metal tin, copper, iron, etc. The law was so sneaked into enactment that composition roofing people were unaware of its existence until here recently. This is the form in which the dodger in question wormed its way through the New York Assembly:

"No factory shall be conducted in any building hereafter erected more than one story in height unless such building shall conform to the following requirements:

"All buildings more than four stories in height shall be of fireproof construction. The roofs of all buildings shall be covered with incombustible material or shall be of tar and slag or plastic cement supported by or applied to arches of fireproof material, and the cornices shall be constructed of incombustible material."

Observe the joker permitting the use of slag or plastic cement "supported by or applied to arches of fireproof material" and the smaller joker requiring that "the cornices shall be of incombustible material."

On the face of it this looks fair enough. The joker resides in the fact that slag or cement "supported by fireproof arches" costs more than tin, hence in effect the law amounts to an order to the factory owner to roof in tin and in tin only. The National Association of Master Slag and Gravel Roofers, after convincing the State Labor Commission of the injustice of requiring a fireproof roof deck on non-fireproof buildings and absolutely proving to them that a slag or gravel roof is one of the best fire-retardant roof coverings that can be had, have elicited a promise that the use of a slag or gravel roofing will be permitted where the roof deck is of board sheathing.

Nice business assuredly! The great run of tin roofing plate turned out nowadays isn't of much account whether as fireproofing, or as plain roofing, as any truthful roofer can testify. The best obtainable plate isn't what it was thirty years ago in quality. We'd rather have a first-class composition roof any day in any week than a roof covered with the quality of tin plate in general use. Tin roofing by statute is in the nature of a new stunt.

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

BOSTON'S BIG FIRE LOSS.

In making his annual report for the fiscal year just closed, Fire Commissioner Charles H. Cole, of Boston, Mass., point out that 80 per cent. of the \$3,105,000 fire loss in that city last year was preventable. He refers to two causes of the preventable fire loss—lack of enforcement of existing laws owing to an unscientific scattering of authority through different boards and the inadequacy of the laws with respect to the material, construction and occupancy of buildings. He advises the centralization of all authority with respect to danger from fire under one department created for this purpose only and improvement in the laws dealing with construction, alteration and maintenance of buildings. He would permit the fining of the owners of buildings in which fires occur owing to defective chimneys and the punishment of persons who allowed fires to originate through carelessness as guilty of misdemeanor.

One of his recommendations is a special zone in the business district in which only construction of the first class should be allowed. Other suggestions are that no more wooden roofs or wooden coverings on roofs be allowed; that all buildings of five or more stories be of fireproof construction; that no building of any kind be nearer than 10 ft. to another unless all openings in the walls are suitably protected, and that no part of any third class building be nearer than 12 feet to the nearest part of another third class building.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

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DOUBLE-ACTION SAWS.

The French have invented a double-action saw that is said to be much better than saws of the ordinary kind. The teeth of the new saw are arranged in alternate groups—four pointing forward and then four pointing back. For cutting metal the new saws are almost twice as efficient as saws of the usual pattern. They last six times as long. The blades do not break easily. They cut either wood or metal, and are made in a great variety and styles.—“Exchange.”

PASTE PAINT FOR SKYLIGHT.

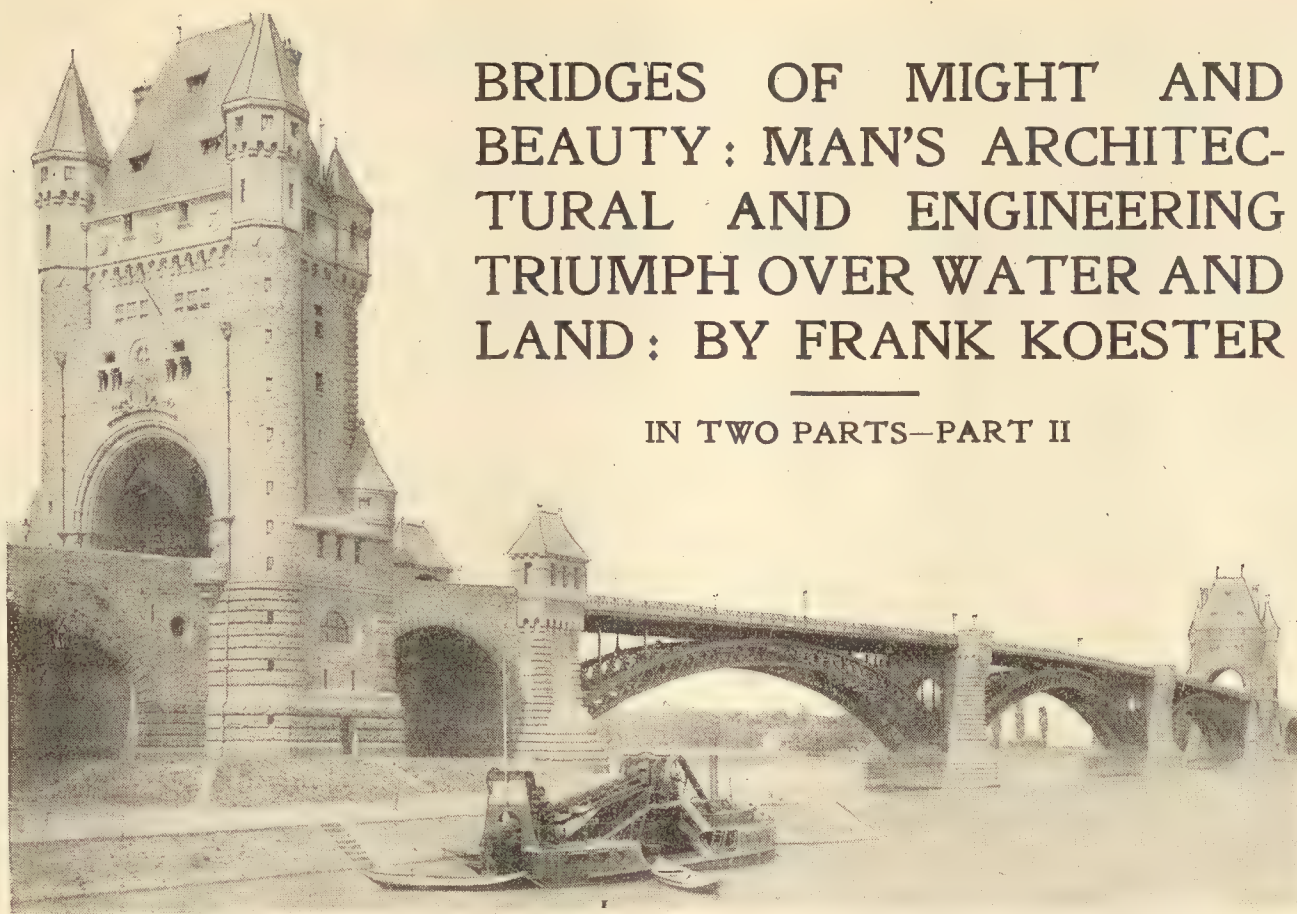
A contractor who has had some trouble in laying a glass roof or skylight stated that he laid one on a conservatory by lapping the glass and using ordinary putty in laying, but it leaked to such an extent as to render it of little use.

The glass roofs or skylights that consist of extra heavy glass laid in galvanized iron or steel frames should not be laid in ordinary glazier's putty, but in paste oil paint. The very best material for this purpose is paint skins, in paste form, that have been run through a paint mill or a putty chaser, or, still better, that have been boiled over a fire in a kettle and softened somewhat by adding linseed oil. This material remains elastic and does not crack; on the contrary, it has the characteristic of rubber, when made from linseed oil paint skins.

However, if you simply lap the glass without frames as in the case in skylights, it is necessary to thin the paste somewhat and apply a strip of the semi-paste to the end of each under glass, and finally, when paid and paint has set, the ridge made by the top layer must be touched up with the same material in manner similar to that used when clapboard sides are painted, excepting that the paint must be much stouter.

BRIDGES OF MIGHT AND BEAUTY: MAN'S ARCHITECTURAL AND ENGINEERING TRIUMPH OVER WATER AND LAND: BY FRANK KOESTER

IN TWO PARTS—PART II



LUDWIG BRIDGE OVER THE RHINE AT WORMS: AN EXAMPLE OF THE MASSIVE PORTAL-TOWERS POPULAR IN GERMANY

[Editor's Note: This article is reprinted from the "Craftsman Magazine" by courtesy of Mr. Gustav Stickley, to whom "The Guide" is indebted for the use of the cuts with which it is illustrated, and by permission of the author, Mr. Frank Koester.]

Its location having been determined, the bridge itself should be of such a design as to meet in the most direct and practicable manner the conditions it will be called upon to fulfil; and its approaches should be of such a character as to enhance its value rather than, as is so often the case, to mar if not ruin its entire effect.

In order to achieve the proper result it is necessary for the bridge engineer to co-operate with the architect in the design of the bridge and its approaches, and with the city planner, or civic architect, in its relations as a whole to the plan of the city. Unless this is done bridges will continue to be ugly, misplaced and ill suited to their purposes.

Numerous contributory causes, however, in addition to the lack of co-operation between the engineer and architect, go to produce the inartistic effect so prevalent in American bridges, among which are absence of governmental supervision, the necessity for keeping cost at a minimum, legal hindrances, haste in construction, undue competition and use of contractor's plans or of one set of standard plans for a number of bridges, imitation of railroad bridges for other plans and the absence of any well-settled forms for the artistic treatment of iron construction.

The last-named reason is one of considerable importance, since, like skyscrapers, these metal bridges are a modern structural form and there has not yet been enough time or talent given to the subject to develop a satisfactory architectural treatment. In this quarter, however, American designers have much to learn from European practice and examples, as abroad the problem of building bridges of artistic as well as practical construction is being solved with splendid results.

In the aesthetic design of a bridge it should be remembered that it is a work of architectural art and that as such it should conform in its own field to the general principles of artistic design which have been noted as being the rules applicable to city planning in general.

The first principle is that of unity. The bridge and its approaches should produce the impression of being a single homogeneous structure. It should also show appropriateness to its surroundings; it should be symmetrical, harmonious in proportion, simple, obvious in the relation of its structure to its purposes, economical in the use of material and embellished without over-ornamentation. The approaches should be treated in a similar spirit as the bridge itself, constructed in accordance with such principles, and made to add to its dignity and effect. A plaza suitably laid out is almost a necessity to offset a bridge of any size, and a suitable view of the bridge as it is approached is another essential. A glaring violation of this principle is seen in the approaches to the Brooklyn Bridge, in itself one of the finest bridges of this country, but which has at each end a huge barnlike terminal structure effectually concealing the bridge as it is approached.

The terminal plaza may even with good results be a park of some size, suitably laid out and embellished, and the bridge thus be given the benefit of a most favorable approach.

The principal types of bridges are the arch, the suspension, the cantilever and the truss. The selection of type must depend on natural conditions and on questions of traffic, cost and material. Thus a narrow stream with high banks over which a considerable vehicular traffic is to be carried may well be

bridged by a stone arch type, although a wide river with islands to be spanned for railroad purposes can best be bridged by a cantilever, especially if the swiftness of the current prevents the erection of the falsework necessary in the construction of an arch bridge.

While its first cost is great, the erection of a stone arch bridge should always be considered, especially when the span is not great, since in its artistic effect the stone bridge is more pleasing and the cheapest in ultimate cost when its centuries of permanency are remembered. A stone bridge with a span of three hundred and twenty-eight feet—one hundred meters—the limit at present for this type, has been recently erected in Rome.

In reinforced concrete, bridges of most beautiful and artistic effects are to be obtained. These are new forms of bridges, however, requiring the highest degree of skill both in design and construction, but in which splendid results have been produced. Concrete bridges exceed in length the limit of stone bridges and have a graceful delicacy and loftiness of effect in remarkable contrast to the ponderousness of the latter.

The metal arch bridge is widely developed in a great variety of forms, with arches ranging up to one thousand feet in length, as in the proposed Hell Gate Bridge at New York City.

The cantilever form of bridge is the most difficult of all in which to obtain artistic results. It readily admits long spans, however, and is often the type selected for commercial and utilitarian reasons. Generally speaking, the cantilever bridges are ugly, not obviously disclosing their principles in construction, and are little understood by the public.

The suspension bridge is a form which is of great natural beauty and simplicity. It is particularly suitable for enormous spans such as covered by the Brooklyn Bridge, which is fifteen hundred and ninety-five feet between towers, but it is a type in which the weight of the bridge should be large in comparison with the live load carried and is not therefore suitable for small bridges. The truss is a form for short and medium spans and is widely used on railroad bridges. It is usually very ugly, but is cheap and efficient. Plate girder bridges, a form of truss, are used for very short spans, such as viaducts over streets, and if properly designed need not be ugly but rather have a very ornamental effect.

A determining feature in the design of bridges is the relative position of the roadway, which may be placed at the top, at the bottom or intermediately. Old Roman stone arch bridges of semi-circular arch form, the only type of arch they built, with roadway at the top and numerous small spans in the center, have never been surpassed in substantial dignity and aesthetic effect, though modern arch bridges with their arches in ellipse and segments of circles are more graceful in effect. The suspension bridge is among the finest of the forms in which the roadway is at the bottom.

Although artistic bridges may appear more expensive, yet with proper engineering the



WELL DESIGNED ELECTRICALLY OPERATED LIFT-BRIDGE AT THE HARBOR IN THE RIVER PORT OF DUISBURG-RUHRORT, IN RHENISH PRUSSIA.

material saved as compared with a badly designed bridge will more than compensate for any extra cost of the artistic form.

The best method of securing the proper design for bridges is that followed to a large extent in Germany. Competition plans are invited from engineering concerns of standing, principally having in view their aesthetic appearance and the approximate cost. The three best plans are awarded prizes, and on being paid for become the property of the city, which thereupon calls for definite proposals for the erection of a bridge in accordance with the first prize-winning plan. The various competing concerns submit bids with detail drawings, and the best bidder is awarded the work. Thus it may happen, as it occasionally does, that the concern submitting the design adopted gets only the prize and not the contract for the erection of the bridge, although the prize-winning concern has much the best chance of being awarded the contract.

A system of this character should undoubtedly have the effect of greatly improving American bridges.

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COST PER SQUARE FOOT FOR BUILDING UPKEEP.

The cost per square foot of rentable area for the upkeep of skyscraper office buildings no doubt varies greatly in New York. A table recently prepared by C. T. Coley, the operating manager of the New Equitable, has inspired Vice-President Mortimer of the United States Realty and Improvement Company to prepare a table showing average results in some of the first-class buildings of New York, as he has found them, covering a period of five years:

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Courtesy of the New York City Planning Exhibition.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The National Hardware Association meets at Hotel Statler, Buffalo, Thursday, June 18. The New York Central will run a special train from Chicago on the evening of June 17, which will carry large delegations from the South and pick up large contingents en route. There will be the usual representative attendance from the hardwood producing sections of the Southwest and Nashville lumbermen, who are on a "boost" trip, will include the Buffalo convention in their itinerary.

**American Bridge Engineering Club held its annual dinner at the St. Denis Hotel Wednesday evening, May 13. A particularly interesting program was rendered after the dinner, the chief numbers being the talks of Messrs. John Brunner and J. E. Jones, of the engineering staff of the Illinois Steel Company. A male quartette and a sketch by members of the club provided the lighter entertainment of the evening.

**The American Institute of Electrical Engineers will hold its thirty-first annual convention in Detroit, Michigan, June 22-26. Convention headquarters will be at the Hotel Cadillac.

**The American Society of Engineering Contractors will hold its midsummer convention July 3 and July 4 at Brighton Beach, Brooklyn.

**The National Association of Building Owners and Managers will convene at Duluth, July 14 to 17.

**Atlantic City has been chosen for the seventeenth annual meeting of the American Society for Testing Materials on June 30-July 4. Headquarters will be at the Hotel Traymore.

**The National Association of Master Plumbers will hold its annual convention at Atlantic City, N. J., June 16-18. Headquarters at Hotel Rudolf.

**The New Jersey Master Plumbers' Association will hold its annual convention at the Hotel Rudolf, Atlantic City, N. J., June 15.

**The Master Steam and Hot Water Fitters' Association will hold its annual convention at Atlantic City, N. J., June 10-13. Headquarters at the St. Charles Hotel.

**W. J. Alexander, architect and civil engineer, formerly of New Martinsville, W. Va., has changed his office to Parkersburg, W. Va. His address is Lock Box 335. Mr. Alexander states that present indications are favorable for a successful season in construction work.

**George Feltman, architect, has recently opened offices at 22 Fifth street, South, in St. Petersburg, Fla., for the practice of his profession and would be glad to receive builders' samples and literature.

**The general offices of the Universal Portland Cement Co. will be located at 208 South La Salle street, Chicago, in the new Continental and Commercial Bank Building.

**Charles Warner, of the Charles Warner Company, Wilmington, Del., delivered an address before the annual convention of the National Lime Manufacturers' Association, in February, on "Sale Promotion Policies in the Lime Industry." This address, one of the most informing and authoritative ever presented dealing with the subject, is now being sent out in pamphlet form.

**S. B. Dobbs, Bailey Building, Philadelphia, has received the order for 700,000 salt glazed bricks to be used in the Germantown High School Building. This is one of the largest orders for salt glazed brick that has been placed for some time.

**H. B. Frazer & Co., electrical contractors, announce the removal of their offices and show rooms to 250 North Seventeenth street, Philadelphia.

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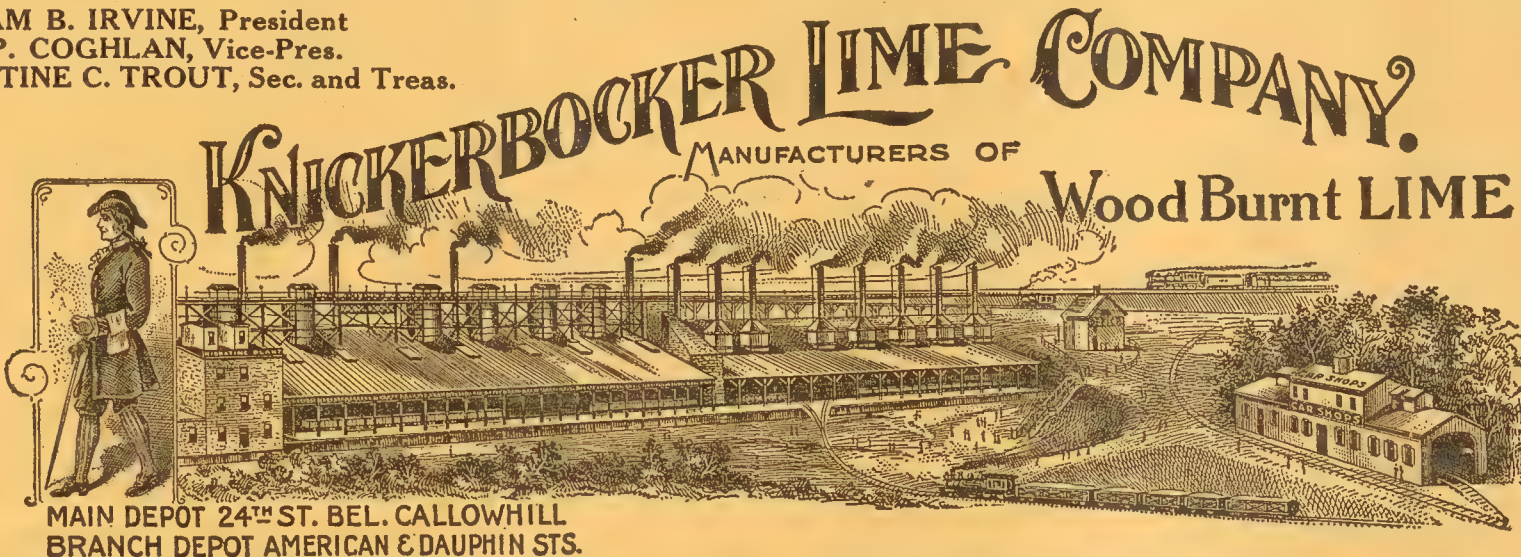
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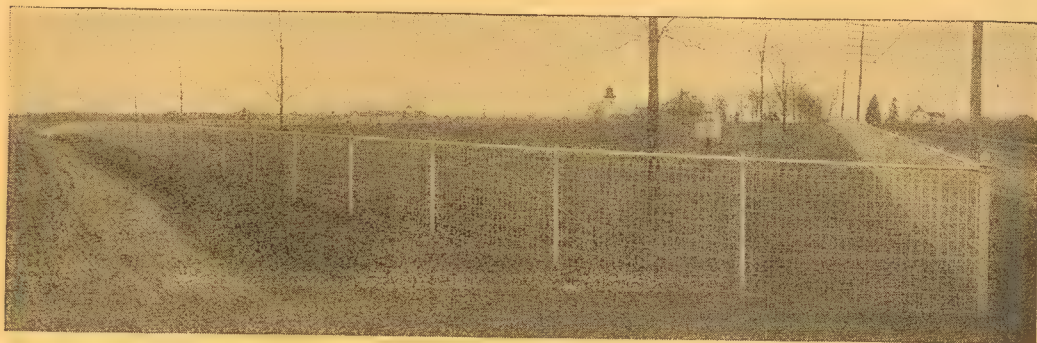
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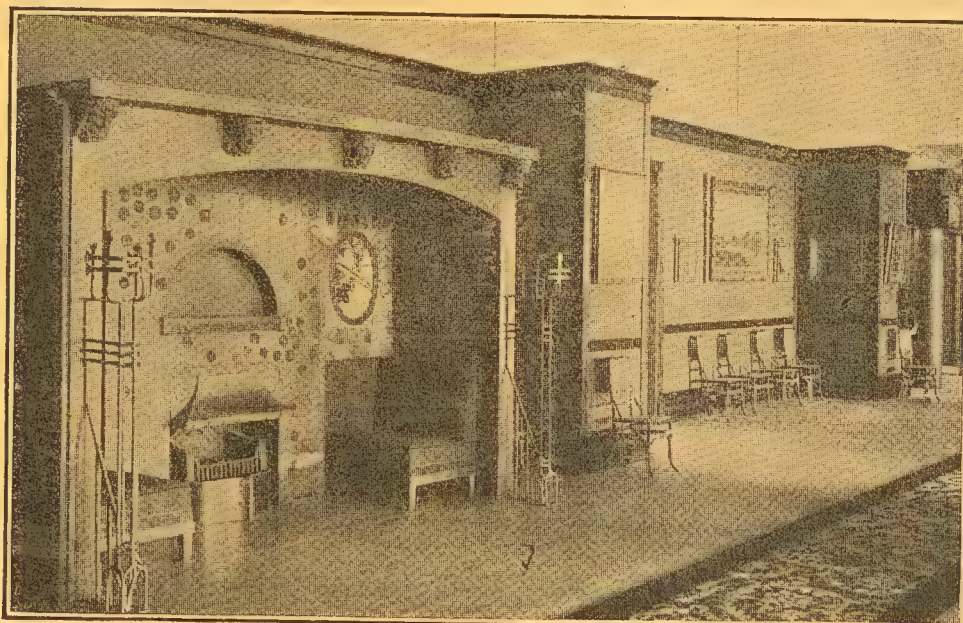
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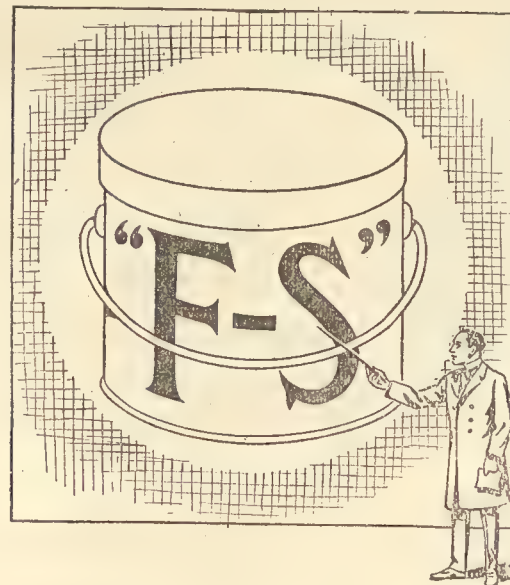
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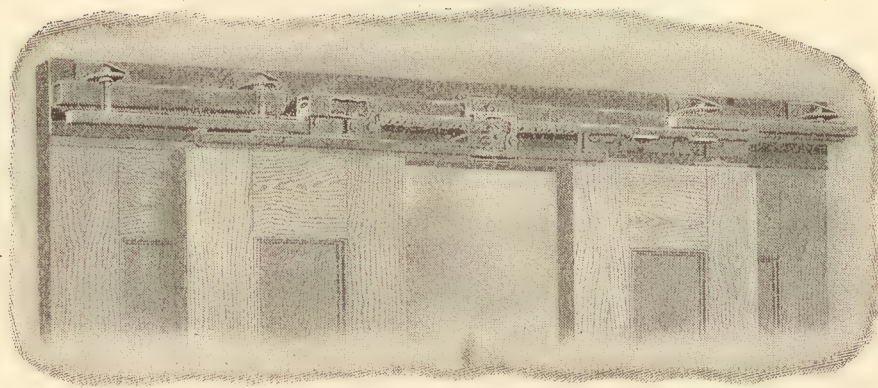
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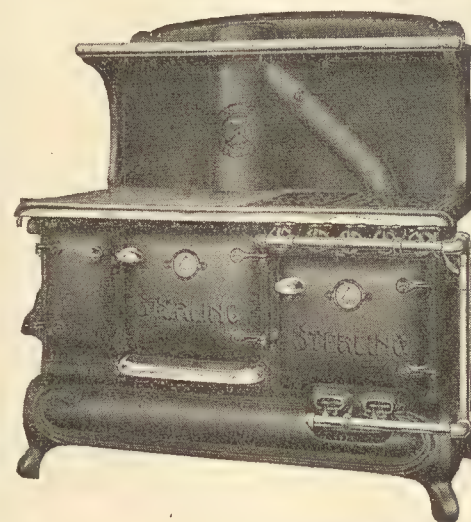


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Cottage (add.), Coulter street and Wissahickon avenue, Gtn. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owners, Germantown Friends' School, on premises. Brick, 2 stories, 16x27 feet, slate roof, steam heating (electric lighting, reserved). Architects have received bids.

Store Building, 11-13 North Second street. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Harry Fleigelman, 36 North Second street. Brick and concrete, 6 stories, 120x60 feet. Plans in progress.

Club House (alt. and add.), 1312 North Broad street. \$100,000. Architect, Carl P. Berger, 1418 South Penn Square. Owner, Loyal Order of Moose, on premises. Brick and steel, fire proof, 3 stories, 70x110 feet. Details not decided. Plans in progress.

Factory (alt. and add.), Vankirk and Milnor streets. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Thomas Janney & Co., 315 North Third street. Brick and concrete, 1 and 2 stories, 197x372 feet, slag roof. Architect taking bids due June 3rd. (Note change.)

Factory Building, 707 Filbert street. Architects, Borzner & Wood, 721 Walnut street. Owners, Harry Burstein Co., 707 Filbert street. Brick and concrete, 6 stories, 20x60 feet, slag roof, steam heat, electric lighting, elevators. Plans in progress.

Residence (alt. and add.), 1507 Locust street. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Dr. Charles J. Jones, on premises. Brick, 4 stories, hot water heating, electric lighting, consists of interior alteration and addition. Architect has received bids.

Residence (alt. and add.), Overbrook, Phila. Architects, Magaziner & Potter, 603 Chestnut street. Owner, E. A. Bookmeyer, Overbrook, Pa. Plaster and brick, 2½ stories, tile roof, electric lighting. Architects have received bids.

Church Building, Twenty-second and Moore streets. Architects, Milligan & Pierson, 520 Walnut street. Owner, Twenty-second Street M. E. Church, care of Dr. J. E. Gallagher, on premises. Brick and stone, 2 stories and basement, 42x125 feet, slate and slag roof (heat

and light, reserved). Revised plans in progress.

Children's Hospital, Eighteenth and Fitzwater streets. \$300,000. Architects, Stewardson & Page, 320 Walnut street. Owners, Children's Hospital of Philadelphia, 207 South Twenty-second street. Brick, steel and concrete, 4 stories and basement, slate and slag roof, steam heating, electric lighting. Architects have received bids.

Hospital (alt. and add.), Wissahickon avenue and Lincoln drive. Architect, E. Simpson Lemmon, P. O. Box 389, Phila. Owners, Providence General Hospital, care of Dr. M. D. Ridgway, 2035 Chestnut street. Consists of alteration and addition for hospital. Plans in progress. Bids in about ten days.

Stores and Residences (2), Eleventh street and Lindley avenue. Architect, Carl P. Berger, 1418 South Penn Square. Owners, Weil & Sattler, Real Estate Trust Building. Brick, 2 stories, 40x82 feet, slag roof, steam heating, electric lighting. Owners taking bids.

Garage, 109 Harvey street, Gtn. Architect, J. D. Boyer, 52 Pastorius street, Gtn. Owner, Arthur Wilkie, 111 Harvey street, Gtn. Brick, 1 story, 30x75 feet, slag roof (heating and lighting, reserved), gasoline storage. Owner taking bids due June 3rd. W. C. Wright, 22 Harvey street! McNeil Co., 513 High street, and George C. Fossel, 128 East Cheltenham avenue, Gtn., are figuring.

Coal Handling Plant, Sixteenth and Spring streets. Architect, private plans. Owner, United States Government, care of M. T. Maul, Superintendent of Construction, Post Office Building, Phila. Steel and concrete. Plans in progress. Owners will take bids in about ten days.

Residence and Garage, Chestnut Hill, Phila. \$25,000. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Daniel H. Carstairs, 256 South Third street. Stone, 2½ stories, shingle and canvas roofs, warm air heating, electric lighting, oak floors, tile and marble work, metal weather strips, vacuum cleaner, metal lath, reinforced concrete floors. Architects taking bids June 4th. The following are figuring: William J. Gruhler Co., 219 East High street; Pringle Borthwick,

8018 Germantown avenue; Samuel Harting, 20 East Johnson street; William H. Eddleman, 453 Greene lane, Roxborough; Frederick Elvidge & Son, 5522 Germantown avenue; Queen Lane Manor Co., Stokley street and Midvale avenue.

Laboratory Building, Twenty-fourth and Norris streets. Architects, Koelle-Speth Co., Twenty-sixth and Oxford streets. Owner, Standard Dental Mfg. Co., Twenty-fifth and Diamond streets. Brick, 2 stories, 20x24 feet, slag roof, steam heating, electric lighting. Revised plans in progress. Bids in one week.

Mission House (alt. and add.), Eighth street and Snyder avenue. Architects, Brochi & Hastings, 1913 Sansom street. Owner, St. Martha's House, on premises. Brick, 3 stories. Consists of general alterations and additions. Plans in progress.

Residence and Garage, Sixty-fourth street and Church road. \$18,000. Owner, A. Helmar Englund, Seventeenth and Cambria streets. Brick, 2½ stories, 50x60 feet, tile roof, hardwood floors (heating and electric work, reserved). Revised plans in progress.

High School, Oxford and Wakefield streets, Frankford. Architect, J. Horace Cook, Land Title Building. Owners, Board of Education, City Hall. Brick and stone, fireproof, 4 stories, 200x295 feet, slate roof (heating and lighting separate bids), waterproofing, enameled brick, metal frames and sash, metal lath. Owners will take bids in three weeks.

School, Thirteenth and Jackson streets. Architect, J. Horace Cook, Land Title Building. Owners, Board of Education, Land Title Building. Brick and stone, fireproof, 3 stories, 150x200 feet, slate roof, metal lath, metal frames and sash (heating and lighting separate bids). Owners will take bids in three weeks.

Residence (alt. and add.), Sixth and Pine streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Dr. N. Y. Belber, on premises. Brick and plaster, 3 stories, 20x27 feet, slag and tile roof (electric lighting reserved), hardwood floors. Revised plans in progress.

Residence and Garage, Broad and Bristol streets. Architect, Carl P. Berger, 1418 South

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Penn Square. Owner, Anna K. Ledig, care of architect. Brick, stone trimmings, 3 stories, steam heating, electric lighting, hardwood floors. Plans in progress.

Residence (add.), Chestnut Hill, Philadelphia. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street. Owner, Jay Cooke, 3rd, 122 South Fourth street. Stone, hollow tile and stucco, 2½ stories, slate roof. Consists of servants' rooms, dining room, etc. Plans in progress.

Apartment House (add.), Broad and Lombard streets. Architects, the Stebelmer Studios, 35 South Sixteenth street. Owner, E. C. Brown, on premises. Brick, 3 stories, 18x60 feet, tin roof, steam heating, electric lighting, metal lath. Owner taking bids, due June 6th. William J. Robinson, 1508 Lombard street, and the Belmer Company, 35 South Sixteenth street, are figuring.

Stores and Apartments (alt. and add.), 1403-05 North Fifty-second street. Architect, W. C. Kline, Jr., 1519 North Fifty-sixth street. Owner's name withheld. Brick, 3 stories, slag roof, hot water heat, electric lighting. Plans in progress.

Convent (alt. and add.), Broad and Butler streets. Architects, Watson & Huckel, 1211 Walnut street. Owners, St. Stephen's R. C. Church, on premises. Brick, 3 stories, 28x42 feet, slate roof, steam heating, metal lath. Architect taking bids, due June 6th. William R. Dougherty, 1610 Sansom street; Melody & Keating, Bailey Building; McLaughlin & McNemera, 4305 Germantown avenue; William J. McShane, 417 South Thirteenth street, are figuring.

Fire Tower, 1722 Arch street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, G. B. Young, 1206 Arch street. Concrete, 4 stories, 8x13 feet, Careys roof. Architects taking bids, due June 6th. The following are figuring: Elfreth & Wood, 1708 Sansom street; William Ferguson & Son, 405 South Twenty-first street; H. C. Dahl, 231 South Eighth street; James H. Wells, Heed Building; Thomas Little & Sons, 1723 Moravian street; George A. Sorbers & Sons, 18 Harvey street.

Hotel (alt. and add.), 4244 Ridge avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Fairmount Park Inn, 4244 Ridge avenue. Consists of an addition to the north side of the Inn, with new toilet rooms

and service bar. Owner taking bids. John J. Kelly, 3058 West York street, only bidder.

Church, Parish House and Rectory, Tenth and Rockland streets. Architect, J. Franklin Stuckert, 112 South Forty-third street. Owners, Bishop Nicholson Memorial Reformed Episcopal Church, care of Thomas Martindale, Tenth and Market streets. Stone and plaster, 1, 2 and 3 stories, 90x140 feet, slate and slag roof (steam heating and electric lighting reserved), dampproofing. Architect taking bids, due June 9th. The following are figuring: Thomas C. Trafford, 1613 Sansom street; A. Bottoms Sons Company, 41 South Fifteenth street; F. L. Hoover & Sons, 1023 Cherry street; Pomeroy Const. Co., 1609 Ranstead street; A. Raymond Raff, 1635 Thompson street; George L. Sipps, 912 Locust street; George Kessler Cont. Co., Drexel Building; George F. Payne & Co., 401 South Juniper street.

Stores and Apartments (alt. and add.), 47 North Fifty-second street. Architect, W. C. Kline, Jr., 1519 North Fifty-sixth street. Owner's name withheld. Brick, 3 stories, slag roof, hot water heating, electric lighting. Plans in progress.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 1810 Spruce st. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, Dr. J. P. C. Griffith, 1810 Spruce street. Brick, 3 stories, consists of interior alteration and addition (heating and lighting, reserved). Contract awarded to A. Wilt & Sons, 723 North Front street.

Stable and Barn, Chestnut Hill, Pa. Architect, G. T. Pearson, 427 Walnut street. Owner, E. W. Clark, Jr., Chestnut Hill. Stone, 2 stories, 19x82 feet, tin roof, hot air heating, electric lighting. Contract awarded to Stokes Bros., 6723 Musgrave street, Germantown, who are taking sub-bids on all lines.

Warehouse, 410-12 South Water street. Architect, private plans. Owner, Pennsylvania Warehousing & Safe Deposit Co., 113 South Third street. Brick and reinforced concrete, 5 stories, 130x35 feet, slag roof, water proofing, metal frames and sash, expanded metal lath, rolling steel doors and shutters (heating, electric work, elevators, reserved). Contract awarded to Harrison C. Rea Co., 1027 Wood street.

Apartment House, 3330-3332 North Broad street. \$60,000. Architects, Milligan & Pierson, 520 Walnut street. Owner, Horace K. Read, 1510 Chestnut street. Brick and terra cotta, 4 stories, 50x200 feet, slag roof, steam heating, electric lighting, oak floors, elevators, metal lath. Contract awarded to F. G. Myhlertz, 1737 Filbert street.

Garage, Sixty-second street and Cedar avenue. \$4,000. Architect, private plans. Owner, William H. Windolph, 28 South Twelfth street. Brick, 1 story, 48x112 feet, slag roof, steam heating, electric lighting. Contract awarded to J. D. Fisher, 5718 Market street.

Sub-Station, Germantown avenue and Moreland street. \$25,000. Architect, J. T. Windrim, Twelfth and Chestnut streets. Owners, Philadelphia Electric Co., Tenth and Chestnut streets. Brick and concrete, 1 story, 70x46 feet, slag roof, steam heating, water proofing. Contract awarded to Charles Gilpin, Harrison Building.

Parish House, Sixty-first street and Cedar avenue, \$10,000. Architect, G. T. Pearson, 427 Walnut street. Owner, St. George P. E. Church, on premises. Stone, 2 stories, 48x50 feet, slate and slag roof, steam heating, electric lighting, water proofing. Contract awarded to James C. Driscoll, Hale Building.

Shelter Sheds and Tunnel, Logan, Pa. Architect, W. Hunter, Twelfth and Market streets. Owners, Philadelphia & Reading R. R. Co., Reading Terminal. Concrete and steel,

tile and slate roof, electric lighting, water proofing. Contract awarded to F. W. Van Loon, Denekla Building.

Power House, Fortieth and Irving streets. Architect, J. T. Windrim, Commonwealth Building. Owners, Thomas W. Evans Museum, Fortieth and Spruce streets. Brick, 1 story, 43x75 feet, slag roof, metal sash and frames. Contract awarded to James G. Doak & Co., Crozer Building.

Manufacturing Building, 4325 Paul street, Frankford, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building. Owners, Keystone Emery Mills, on premises. Brick, 2 stories, 25x97 feet, slag roof (heating and lighting reserved), metal sash and frames, damp proofing. Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Residence, Oak Lane, Philadelphia, \$7,000. Architect, Valentine B. Lee, 1003 Spruce street. Owner, John A. Killpatrick, Bourse Building. Stone, 2½ stories, 34x45 feet, slate roof, hot water heating, electric lighting, metal lath. Contract awarded to F. R. Hill, Oak Lane, Pa.

Home (add.), 6713 Woodland avenue, 6,500. Architect, Frederick Webber, Morris Building. Owners, Chapin Home for Aged Blind, on premises. Brick, 2 stories, 40x32 feet, slag roof, hot water heating, electric lighting. Contract awarded to William F. Erb, 4531 Springfield avenue.

Residence (alt. and add.), 2013 DeLancey street. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street. Owner, Mrs. Charles E. Dana, on premises. Brick, 3 stories. Consists of additional story and interior alterations. Contract awarded to John Duncan, 920 Walnut street.

Church (alt. and add.), Broad and Venango streets. Architects, Stearns & Castor, Stephen Girard Building. Owners, St. Paul's Reformed Episcopal Church, on premises. Stone, 2 stories, 100x135 feet, slate roof (heating and lighting reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets.

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English common people for centuries made their homes in wooden huts of one room. When a family increased in number or wealth another hut was built to it, or rather a lean-to was added, and another and another as needs required. Some times they followed a straight line, other times they were built out from the central hut at various angles. The roofs of these huts were thatched. In the center was left an opening for the fumes and smoke of the fire to escape. The fire was always built in a hollow in the center of the room.

Beds were strawn, often a shake down in a corner. Occasionally the straw was held in a frame like the ribs of a ship.

Houses built by Saxon knights were much more pretentious. They were big halls, like the Roman triumph, with a lofty roof thatched with slate or wood shingles. The floor was hard clay. In the middle was a great fire of dry wood. The thin, acrid smoke from the fire escaped through an opening in the roof directly above the hearth.

Around the fire were long benches on which hearthsmen and visitors sat when not fighting or at work, and talked and drank the hours through. The tables were long boards on trestles. At night, like the less prosperous folks, the floor was strewn with straw and host and visitors slept together.—“Building Age.”

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PENNSYLVANIA

Construction News

Tenant House (alt. and add.), Devon, Pa. Architect, F. A. Hays, 1524 Chestnut street, Phila. Owner, W. N. Wilbur, Devon, Pa. Stone, 2½ stories, 28x56 feet, shingle roof, vapor vacuum heating, electric lighting, oak floors. Architect has received bids.

Store and Apartments, Jenkintown, Pa. Architects, Druckenmiller & Williams, Land Title Building, Phila. Owner, name withheld. Stone and brick, 3 stories, 34x80 feet, slag roof, hot water heating, electric lighting, oak floors, canvas roof. Plans in progress.

Residence and Garage, Villanova, Pa. Architects, Zantinger, Broie & Medary, Fifteenth and Walnut streets, Phila. Owner, George H. McFadden, 121 Chestnut street, Phila. Hollow tile and plaster, 2½ storie. Details withheld. Plans in progress.

Church, Lansdale, Pa. Architects, E. F. Durrang & Sons, Twelfth and Chestnut streets, Phila. Owner, St. Stanislaus R. C. Church, care of Rev. Joseph Schade, Lansdale, Pa. Frame, 1 story, 20x70 feet, shingle roof, electric lighting. Plans in progress.

Stable and Garage, St. David's, Pa. Architects, Boyd, Coneys & Abel, Northeast corner Fifteenth and Walnut streets, Phila. Owner, Charles S. Walton, Third and Vine streets, Phila. Stone, 2½ stories, 94x50 feet, tile roof, electric lighting (heating, reserved). Architects have received bids.

Residence and Garage, Haverford, Pa. Architect, H. Brooks Price, 105 West Fortieth street, New York City. Owner, Dr. Archibald G. Thomson, New Stock Exchange, Phila. Hollow tile and stucco, 2½ stories. Details not decided. Plans in progress. Architect and owner will take bids in three or four weeks.

Bank and Office Building, Scranton, Pa. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Union National Bank, W. L. Connell, President, Scranton, Pa. Brick, stone, terra cotta and steel, fireproof, 12 stories, 41x85 feet. Plans in progress. Architect will be ready for bids July 1st.

School Building, West Reading, Pa. \$50,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Borough of West Reading. Brick, 2½ stories, 168x75 feet, composition roof, gas and electric lighting, heating not decided. Plans in progress.

Residence, Glenside, Berks County, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, L. W. Bridegam, 426 Schuylkill avenue, Glenside, Berks County, Pa. Brick, stone trimmings, 2½ stories, 16x60 feet, tin and slate roof, hot air heating, electric lighting. Owner is taking bids.

Residence, Wayne, Pa. Architect, private

plans. Owner, Barclay Walsh, care of Burket & Bro., Wayne, Pa. Brick, 2½ stories, 28x28 feet, shingle roof, hot air heating, electric lighting. Owner taking bids. The following are figuring: J. D. Lengel, Wayne, Pa.; Joseph H. Maguire, Wayne, Pa.; Morris J. Rossiter, Radnor, Pa.

Residence (10); Elkins Park, Pa. Architect, private plans. Owner, Elkins Park, Pa.; Washington L. Robins, Manager, 1829 Chestnut street, Phila. Stone, brick and plaster, 2½ stories, shingle roof, hot water heating, electric lighting, oak floors. Builder, James B. Flounders, 1329 Arch street, is taking sub-bids.

Residence and Garage, Wawa, Pa. Architects, Stearns & Castor, Stephen Girard Building, Phila. Owner, Mrs. Florence W. Wood, 2211 St. James Place, Phila. Stone and rough cast, 2½ stories, 70x36 feet, and wing 36x28 feet, slate roof, tile and marble work, window screens (hardwood floors, wire lath, electric work, heating, vacuum cleaner, reserved). Architects taking reserved bids due June 4th. The following are figuring: James B. Flounders, 1329 Arch street; A. R. Raff, 1635 Thompson street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1210 Sansom street; Thomas M. Seeds, Jr., 1207 Arch street; Loos & Dohard, 1430 South Penn Square, Pa.; A. L. Fretz & Son, 1222 Chancellor street, all of Phila.

Residence (alt. and add.), Ardmore, Pa. Architects, Price & McLanahan, 1418 Walnut street, Phila. Owner, J. Crosby Brown, Ardmore, Pa. Stone, 2½ stories, slate roof (heat and lighting, reserved), composition floors. Revised plans in progress. Bids in a few days.

School, Bryn Mawr, Pa., \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick and stone, fireproof, 2 stories, slate roof. Owners taking bids, due June 15th. Plans can be obtained from architect upon payment of \$5.00. (Heating and lighting separate bids.)

Playground, Bala, Pa. Architect, Ralph White, Pennsylvania Building. Owners, Lower Merion Township Commissioners, G. C. Anderson, Clerk Mahan Building, Ardmore, Pa. Consists of grading, sodding, drainage, comfort building, shelters. Owners received bids June 2nd.

Playground, Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building. Owners, Lower Merion Township Commissioners, G. C. Anderson, Clerk, Mahan Building, Ardmore, Pa. Consists of comfort building, shelters, etc. Owners received bids June 2nd.

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Squash Court (add.), Cynwyd, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Philadelphia. Owners, the Cynwyd Club, Cynwyd, Pa. Hollow tile and plaster, 1 story, 20x40 feet, slag roof, steam heating. Plans in progress. Bids in one week.

Recreation House, Newtown, Pa. Architect, Oliver R. Parry, 1727 Chestnut street, Philadelphia. Owner, J. J. Tierney, Newtown, Pa. Brick and plaster, 1 story, 20x30 feet, shingle roof, electric lighting. Consists of swimming pool, locker room, dressing rooms. Architect taking bids, due June 3rd. The following are figuring: H. E. Girton, Newtown, Pa.; F. E. Heston, Churchville, Pa.; Joseph Taylor, Langhorne, Pa.; James Brown, Bristol, Pa.; A. Dorenzo, Bristol, Pa.

Sunday School and Parish House, Ardmore, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, First Presbyterian Church, Ardmore, Pa. Stone, 1 and 2 stories, 60x115 feet, slate roof, steam heating, electric lighting. Plans in progress.

School (add.), Milton, Pa., \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Education, Milton, Pa. Brick, 2 stories (2 new rooms), new heating system. Ready for bids.

Residence, Gettysburg, Pa., \$5,000. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. Milton Rath, Gettysburg, Pa. Brick, stone trimmings, 2½ stories, 34x34 feet, slate roof, heating not decided, gas and electric lighting, hardwood floors, tile work. Owner ready for bids.

Residence, Villa Nova, Pa. Architects, Wilson Eyre & Mellvaine, 1003 Spruce street, Philadelphia. Owner, P. W. Roberts, Bellevue-Stratford Hotel, Philadelphia. Stone and rough cast, 150x36 feet and 2 wings, tile roof, indirect hot water heating, electric lighting, hardwood floors. Plans in progress. Architects will take bids in about one month.

Double Residence, Harrisburg, Pa., \$5,000. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Mrs. Mary C. Black, 1616 North Green street, Harrisburg, Pa. Brick, 2 stories, 28x28 feet, slag roof, hot air heating, gas and electric lighting. Owner will take bids in a few days.

Residences and Stores, Minersville, Pa. Architect, W. D. Hill, Pottsville, Pa. Owner, Nicholas Di Meindo, Minersville, Pa. Brick, 3 stories, 84x46 feet, slag roof, hot water and hot air heating, electric lighting. Owner taking bids.

Store (alt. and add.), Carlisle, Pa., \$5,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, S. Kronenberg's Sons, Carlisle, Pa. Brick and steel, 1 story, slag roof, gas and electric lighting, tile work. Architect taking revised bids.

School (add.), Oxford, Pa., \$10,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Board of Education, Oxford, Pa. Brick and granite trimmings, 2 stories, 50x65 feet, slate roof, steam heating. Owners taking bids. The following are figuring: S. F. & J. T. Brown, Oxford, Pa.; E. W. Gibson & Son, Oxford, Pa., and W. W. Anstine & Co., 1218 Filbert street, Philadelphia.

Factory (alt. and add.), Lancaster, Pa., \$25,000. Architect, private plans. Owners,

Monitor Bi Loop Radiator Company, Woolworth Building, Lancaster, Pa. Brick, concrete and steel, 2 stories, 87x50 feet, slag roof, Monitor Bi Loop heating system, electric lighting, concrete, composition and wood block floors, 25 electric motors (1) 50 H. P. generator, (1) 15 ton cupolo. Owners taking sub-bids.

Store and Garage, Harrisburg, Pa., \$11,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, G. W. Myers, 225 Hammel avenue, Harrisburg, Pa. Brick, stone trimmings, 2 stories, 147x23 feet, composition roof, electric lighting, reinforced concrete floors, metal sash, iron stairs. Architect taking bids.

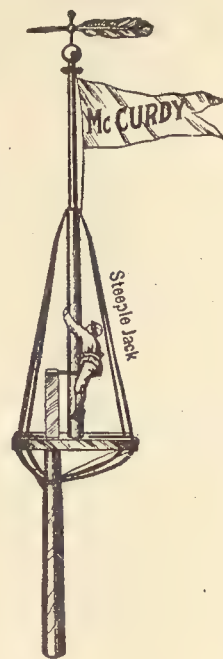
Church, Lemoyne, Pa., \$12,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owners, Church of Christ, Rev. Minges, Lemoyne, Pa. Brick, hollow tile and stone trimmings, 2 stories, 72x63 feet, slate roof, heating not decided, electric lighting. Plans about completed. Architect will take bids in one week.

Schools (alts.), Bristol, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, School Board, Bristol, Pa. Consists of plastering, plumbing and stair work. Owners taking bids, due June 10th. The following are figuring: Louis E. Rodan, Harry McMullen, John Smoyer, Owen Evans, S. B. Ardrey & Sons, Frank Weeks, all of Bristol, Pa.

Garage, Villa Nova, Pa. Architects, Furness & Evans Co., Fourth and Chestnut streets, Philadelphia. Owner, J. R. Maxwell, Jr., Morris Building, Philadelphia. Brick, 2½ stories, 35x50 feet, shingle roof (heating and lighting reserved). Architects taking bids, due June 6th. The following are figuring: E. E. Hollenback, Fifteenth and Race streets, Philadelphia; Charles Gilpin, Harrison Building, Philadelphia; J. D. Lengel, Wayne, Pa.; Pringle, Borthwick, 8018 Germantown avenue, Philadelphia; Milton W. Young, Overbrook, Philadelphia; George & Borst, 277 South Eleventh street, Philadelphia; Frank H. Mahan, Ardmore, Pa.; H. F. Foster, Ardmore, Pa.; F. M. Harris, 1820 Wiley street, Philadelphia; A. Whitehead, Inc., 1624 Latimer street, Philadelphia; C. O. Struse & Sons, Walnut lane and Cresson street, Philadelphia.

Residence, Ardmore, Pa. Architect, private plans. Owner, W. F. Supplee, Bala, Pa. Hollow tile and plaster, 2½ stories, 24x42 feet, single roof, hot water heating, electric lighting, oak floors. Owner taking bids, due June 8th. J. Sims Wilson, 1125 Brown street; Henry L. Brown, 1714 Sansom street; M. W. Young, Overbrook, all of Philadelphia; Alfred James, Bala; Samuel Harting, 20 East Johnson street, are figuring.

Residences (2), Oxford, Pa., \$5,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Mrs. Annie A. D. Miller, Oxford, Pa. Brick and stucco, 2½ stories, 17x28 feet, slate and slag roof, hot water heating, electric lighting. Owner taking bids. The following are figuring: Charles H. Tindall & Sons, Wilmington, Del.; D. F. & J. J. Brown, Oxford, Pa.; E. W. Gibson & Son, Oxford, Pa.; Joseph T. Crowl, Lincoln Uni-



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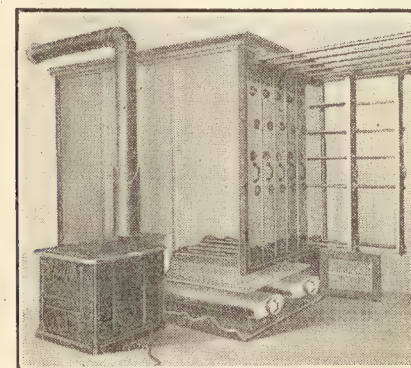
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versity, Pa.; Benjamin Willard, West Grove, Pa.

Bank Building, Boyertown, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Boyertown National Bank, E. K. Schultz, president. Limestone, 1 story,

40x70 feet, slag roof, steam heating, electric lighting, concrete fireproof floors, metal lath, dampproofing, mahogany banking fixtures, tile and terrazzo work. Architect taking revised bids, due June 8th. The following are

figuring: Charles McCaul Company, 1713 Sansom street, Philadelphia; F. H. Keiser Company, Pottstown, Pa.; Fink & Seidle, Reading, Pa.

PENNSYLVANIA

Contracts Awarded

Lodge Building, Fourth and Court streets, Reading, Pa. \$10,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Knights of Malta, care of Henry S. Erb, Chairman, Reading, Pa. Frame and steel, one story, 42x63 feet, slag roof, steam heating, electric lighting. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

School Building, Mohnton, Pa. \$21,000. Architect, Stetler & Mengel, Wyomissing, Pa. Owner, Board of Education, Mohnton, Pa. Brick, stone trimmings, 2½ stories, 70x84 feet, slag roof, steam heating, gas and electric lighting. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

Residence and Garage, Ardmore, Pa. Architects, Thomas & Churchman, 130 South Fifteenth street, Phila. Owner, Charles Carver, Jr., Stephen Girard Building, Phila. Stone & plaster, 2½ stories, 43x40 feet, slate roof (heating reserved), electric lighting. Contract awarded to F. W. Allison Co., 1710 Rittenhouse street, Phila.

Hotel, Moore, Pa. Architects, Karcher & Smith, Crozer Building, Phila. Owner, David McClure, Moore, Pa. Hollow tile, plaster and brick, 3 stories, 60x80 feet, shingle roof, hot water heating, electric lighting. Contract awarded to H. L. Morris, Chester, Pa.

Residence, Haverford, Pa. \$100,000. Architects, Carrere & Hastings, New York City. Owner, Dr. Lewis S. Zeigler, 1625 Walnut st., Phila. Hollow tile and plaster, 3 stories, 100x125 feet, slag roof, composition and oak floors, kalamein doors, water proofing, weather strips, metal lath (heating and lighting, reserved). Contract awarded to George & Borst, 277 South Eleventh street, Phila.

School (add.), Norristown, Pa. \$47,897. Architect, Oliver Randall Parry, 1723 Chestnut street, Phila. Owner, Board of Education, Norristown, Pa. Brick, fire proof, 2 stories, 30x76 feet, slate roof, steam heating, electric lighting. Contract awarded to F. Roe Searing, Perry Building, Phila.

Weave Shed, Hazelton, Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Duplan Silk Co., Hazelton,

Pa. Brick, 1 story, 90x198 feet, slag roof, electric lighting. Contract awarded to United Fireproofing Co., 1133 Broadway, New York City.

Home, Quincy, Pa., \$23,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, U. B. Orphanage and Home, care of W. H. Washinger, Chambersburg, Pa. Stone and brick, 2½ stories, 30x100 feet, 2 wings 18x30 feet each, slate roof, steam heating, electric lighting. Contract awarded to W. A. Pentz, Scotland, Pa.

School, Manheim, Pa., \$50,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Education, Manheim, Pa. Brick, 2 stories, 169x60 feet, slag roof, warm air heating, electric lighting. Contract awarded to D. S. Warfel, 958 East Orange street, Lancaster, Pa.

Store and Residence, Lemoyne, Pa., \$4,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner's name withheld. Brick, 2 stories, 25x60 feet, slag roof, steam heating, gas and electric lighting. Contract awarded to Frank J. Harro, Camp Hill, Cumberland County, Pa.

Packing House, Media, Pa., \$18,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owner, C. E. Allen, Media, Pa. Stone and brick, 3 stories, 48x90 feet, slag roof, enamel brick, metal lath, waterproofing. Contract awarded to James B. Flounders, 1329 Arch street, Philadelphia.

Hall, 519 Northampton street, Easton, Pa. Architect, F. H. Wenzelberger, Easton, Pa. Owners, Odd Fellows, Easton, Pa. Brick and terra cotta, 3 stories, 54x185 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to F. Roe Searing, Perry Building, Philadelphia.

Residences (5), Ardmore, Pa., \$32,000. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, and McIlvaine & Roberts, Land Title Building, Philadelphia. Owners, Fox & Williams, 416 Walnut street, Philadelphia. Brick, plaster, stone and frame, 2½ stories, shingle roof, hot air heating, electric lighting, tile work. Contract awarded to Graham-Campion Company, Heed Building, Philadelphia.

feet, slag roof, hot water heating, gas and electric lighting. Plans about completed. Architect will take bids in a few days.

Residence (alt. and add.), Riverton, N. J. Architect, C. R. Peddle, 136 South Fourth street, Phila. Owner, Stanley Groves, Riverton, N. J. Frame, 3 stories, slate roof, Warren-Webster System heating, electric lighting, hardwood floors. Architect received bids June 2nd.

Post Office, Burlington, N. J. Architect, Oscar A. Wenderoth, Washington, D. C. Owner, United States Government, Treasury Department. Brick, 2 stories and basement, 56x77 feet, slate roof, steam heating, electric lighting, maple floors, water proofing, metal lath. Owners taking bids June 17th. J. E. & A. L. Pennock, Land Title Building; Wells Construction Co., Witherspoon Building; J. W. Emery, 1524 Sansom street; D. T. McCarthy, 411 Walnut street, all of Phila., are figuring.

New Jersey

Contracts Awarded

Nurses' Home, Atlantic City, N. J. \$30,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Phila. Owner, Atlantic City Hospital, care of A. M. Heston, 26 South Iowa avenue, Atlantic City, N. J. Brick, stone trimmings, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to Wilbert Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

Loft Building, Haddon avenue, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Phila. Owners, Wood Mfg. Co., Camden, N. J. Brick, 2 stories, 53x125 feet, slate roof, electric lighting, steel sash, waterproofing. Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Residence, Atlantic City, N. J. Architect, Walter Smedley, Stephen Girard Building, Phila. Owner, Walter J. Buzby, Atlantic City, N. J. Brick, 2½ stories, 33x59 feet, slate roof (heating and lighting, reserved), metal lath. Contract awarded to Charles D. Thompson, Bartlett Building, Atlantic City, N. J.

Nurses' Home, Trenton, N. J., \$7,500. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owners, City of Trenton, Department of Public Affairs. Brick, stone trimmings, 2 stories, 50x30 feet, slate roof, steam heating, electric lighting, tile work. Contract awarded to Samuel Wiley, 517 Monmouth street, Trenton, N. J.

Orphan Asylum, Hopewell, N. J., \$50,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, St. Michael's Orphanage, care of Right Rev. Bishop James A. McFaul, Trenton, N. J. Brick, terra cotta and concrete, 4 stories, 50x96 feet, slag roof, steam heating, electric lighting, hollow tile fireproofing, metal lath. Contract awarded to Andrew J. Trier, 61 Pennington street, Trenton, N. J.

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NEW JERSEY

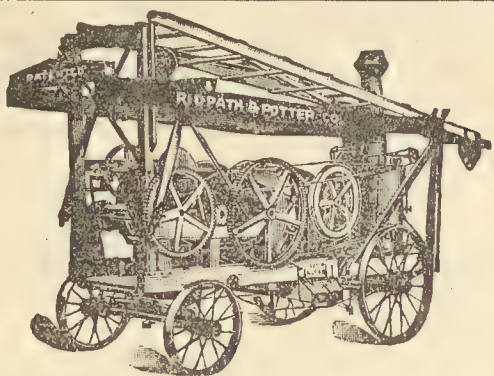
Construction News

Church and School, Sayreville, N. J., \$20,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, St. Stanislaus R. C. Church, Rev. John J. Powsowski, Sayreville, N. J. Brick, 2½ stories, 51x100 feet, slate roof, heating undecided. Plans in progress. Architect will take bids in one week.

High School (add.), Burlington, N. J. Architect, H. A. Brown, Beverly, N. J. Owners, Board of Education, Burlington, N. J. Brick, stone trimmings, 2 stories, slag roof, gas and electric lighting. Plans in progress.

Residence (add.), Trenton, N. J., \$3,500. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, Daniel Haggerty, Front and Jackson streets, Trenton, N. J. Brick, 2 stories, 16x40 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Architect ready for bids.

Residence (add.), Trenton, N. J., \$2,500. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, George Crawford, Market and Lamberton streets, Trenton, N. J. Brick, 2 stories, 12x38



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Miscellaneous Construction News

Passenger and Station Sheds, Burlington, Vt. Architects, Fellheimer & Long, No. 7 East Forty-second street, New York City. Owners, Rutland Railroad & Central Vermont Railway Co., George T. Jarvis, General Manager, Rutland, Vt. Brick, limestone, granite and steel, fire proof, 3 stories, 52x163 feet, sheds and bridge (2), 601 feet long and 85x15 feet, slag roof, steam heating, electric lighting, reinforced concrete floors, hollow tile, damp proofing and water proofing, cork tile floors, dumb-waiters, kalamein doors, metal lath, steel sash, marble and tile work. Architects taking bids due June 3rd. Metzger & Fisher, Denckla Building, Phila., are figuring.

Freight Station, Richmond, Va. Architect, private plans. Owners, Southern R. R. Co., Washington, D. C. Brick, 1 and 2 stories, 40x480 feet, tile and slag roof, damp proofing, metal frames and sash (heating and lighting, reserved). Owners taking bids due June 6th. Roydhouse-Arey Co., Fidelity Building, Phila., are figuring.

Hall, South Hadley, Mass. Architect, W. T. Price, 714 Walnut street, Philadelphia. Owners, Holyoke College, South Hadley, Mass. Brick and stone, 1 and 2 stories, 80x200 feet, slate and slag roof, steam heating, electric lighting, metal frames and sash, waterproofing. J. E. & A. L. Pennock, Land Title Building, Philadelphia, taking sub-bids.

Warehouse, Cleveland, Ohio. Architects, Walker & Weeks, 1900 Euclid avenue, Cleveland, Ohio. Owners, W. Bingham Co., Cleveland, Ohio. Brick and reinforced concrete, 8 stories, 99x435 feet, composition roof, waterproofing, steel sash, cast iron treads, expanded metal lath, Terrazzo floors (heating and electric work reserved). Architects taking bids, due June 5th. James H. Wells, Heed Building, Philadelphia, is figuring.

Armory, Newark, Del., \$15,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owners, State of Delaware, Dover, Del. Brick, 2½ stories, 62x112 feet, slate roof, steam heating, electric lighting, composition floors, electric lighting, metal lath, steel truss roof. Plans about completed. Bids will soon be taken.

Bungalow, Cambridge, Md., \$5,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, D'Arcy Binsfield, Cambridge, Md. Brick, 1 story, 20x60 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans about completed. Owner will take bids in a few days.

Picture Theatre, Wilmington, Del., \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner's name withheld. Brick, stone trimmings, 2 stories, 37x125 feet, slag roof, steam heating, electric lighting, concrete floors. Plans in progress.

Bungalow, Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Mrs. John Mitchell, Wilmington, Del. Brick, 1½ stories, 32x55 feet, asbestos shingle roof, hot air heating, gas and

electric lighting, hardwood floors, tile work. Plans in progress.

Altar, Delaware City, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, St. Paul's R. C. Church, Delaware City, Del. Marble and stone, 14x20 feet. Architect taking bids, due June 4th.

Parochial School (alt. and add.), Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Sacred Heart R. C. Church, Wilmington, Del. Brick and stone, 3 stories, 70x80 feet, gas and electric lighting, tile work, metal ceilings. Architect taking bids, due June 4th. The following are figuring: John E. Healy & Sons, 707 Tatnall street; C. J. F. Dougherty, 1809 Lincoln street; J. P. Reardon, 807 Shipley street, all of Wilmington, Del., and V. H. Curren, Holyoke, Del.

School, Federalsburg, Md. Architects, the Stebelmer Studios, 35 South Sixteenth street, Philadelphia. Owners, Board of Education, care of R. W. Messinger, Federalisburg, Md. Hollow tile and plaster, 2 stories, 70x110 feet, tin roof, steam heating, electric lighting. Plans in progress. Owners will take bids in two weeks.

Miscellaneous Contracts Awarded

Residence (alt. and add.), Washington, D. C., \$50,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Chas. I. Corby, Garrett's Park, Washington, D. C. Brick, 2½ stories, 48x22 feet; two wings; slate roof, hot water heating and vapor heating, hardwood floors, 5 tiled bath rooms. Contract awarded to W. P. Lipscomb & Co., 1405 F street, N. W., Washington, D. C.

Theatre, Salisbury, Md., \$50,000. Architects, Hoffman Company, Juniper and Market streets, Philadelphia. Owners, Arcade Amusement Company, Salisbury, Md. Brick, steel and concrete, terra cotta, fireproof, 3 stories, 187x51 feet, slag roof, metal lath, concrete fireproofing, steam heating, gas lighting, waterproofing. Contract awarded to Smith-Hardican Company, 1606 Cherry street, Philadelphia.

Residence and Garage, Bramwell, W. Va., \$25,000. Architect, DeArmond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, Mrs. K. R. Hewitt, Bramwell, W. Va. Stone, 2½ stories, 65x70 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood floors. Contract awarded to Henry L. Brown, 1714 Sansom street, Philadelphia.

Factory, Jackson avenue, Long Island City, N. Y., \$250,000. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, National Casket Company, 48 Great Jones street, New York City. Brick, steel and concrete, 1, 2 and 3 stories, slag roof, steam heating, electric lighting, metal frames and

sash, rolling steel shutters, metal doors and trimmings, steel windows, metal lath, damp-proofing, waterproofing. Contract awarded to F. P. Ley & Co., 30 East Forty-second street, New York City.

Residences (8), Wilmington, Del., \$16,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Edward Glenn Brown, Ninth and Market streets, Wilmington. Brick, stone trimmings, 2½ stories, 15x40 feet each, slate and slag roofs, hot air heating, gas and electric lighting. Contract awarded to Egbert Nutter, 6 West Thirtieth street, Wilmington, Del.

SAN FRANCISCO'S WONDERFUL BUILDING RECORD.

The total amount of building contracts entered into in the city of San Francisco since the fire is \$244,972,562. Buildings, however, erected within two years of the fire, when no contract price was named by the builder, but when all buildings were built on a percentage basis, cost 25 to 30 per cent. more on the average than the original recorded contract price, and it is therefore estimated that the total amount expended for building operations since the fire is not less than \$301,500,000.

The building figures for the past nineteen years are:

1895	\$5,639,942
1896	5,621,442
1897	4,203,900
1898	3,490,603
1899	4,732,748
1900	6,390,705
1901	7,437,562
1902	14,289,938
1903	14,984,514
1904	16,916,118
1905	20,111,861
1906	39,254,467
1907	50,499,499
1908	35,128,549
1909	30,411,196
1910	22,873,942
1911	24,495,168
1912	26,269,006
1913	32,797,259

It is noted that the immense building impetus, beginning with 1906, reaching its climax in 1907, has gradually decreased until it can be said that the building operations of the past three years are practically down to the normal requirements of a large and growing city. The building operations for the past year were \$32, 797,259, while for the year 1905, just previous to the fire, they were \$20,111,861. This year they will unquestionably run as high as \$35,000,000.

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

F. C. Michaelson (O), 211 South Forty-seventh street. Cost, \$2,000. One dwelling, brick, 2 stories, 16x30 feet, Fifty-fifth and Addison streets. Cost, \$2,500. One dwelling.

Pennsylvania Railroad Company (O), Philadelphia. Brann & Stuart (C), Commercial Trust Building. Cost, \$7,000. Power house, brick, 1 story, 55x36 feet, Broad and Glenwood avenue.

John Mahley (O), 1822 Ontario street. R. W. Mathews (C), 8082 Montague street. Cost, \$2,000. Dwelling, brick, 2 stories, 16x40 feet, Charles and Devereaux streets.

M. J. Crawford (O), 3827 Manayunk avenue. Robert Crawford (C), 3827 Manayunk avenue. Cost, \$3,500. Dwelling, brick, 2 stories, 26x46 feet, Hermit lane and Ridge avenue.

G. J. Stumpf (O), 5130 Wayne avenue. H. P. Schneider (C), 3713 Old York road. Cost, \$3,300. Store, brick, 1 story, 30x60 feet, Germantown avenue and Venango street. Cost, \$5,200. Two stores. Cost, \$5,400. Three stores.

J. J. Burn (O), Mascher and Clarkson avenue. W. Smith (C), 4930 Farmont street. Cost, \$2,800. Dwelling, three stories, 16x50 feet, Rising Sun lane and Stenton street.

Thomas Merkel (O), 130 East Mentor street. Cost, \$6,000. Three dwellings, brick, 2 stories, 15x27 feet, 222-226 West Loudon street.

H. J. Farrell (O), 6342 Paschall avenue. Cost, \$2,900. Two dwellings, brick, 2 stories, 16x43 feet, Sixty-seventh and Paschall avenue. Cost, \$19,600. Seven dwellings, Sixty-seventh and Paschall avenue.

C. F. Miller (O), 3714 Knorr street. Cost, \$4,800. Four dwellings, brick, 2 stories, 14x29 feet, 7146 Hegerman street.

American Ice Company (O), Sixth and Arch streets. W. Loose (C), 214 South Twelfth street. Cost, \$4,500. Manufacturing, brick, 2 stories, 50x110 feet, Thirtieth and Columbia avenue.

George Kessler Company (O), Drexel Building. Cost, \$7,000. Dwelling, brick, 3 stories, 2284 North Fifty-second street.

G. W. Robinson (O), 515 Conarroe street. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x41 feet, Hermitage and Loudon streets.

W. M. France (O), 4437 Frankford avenue. Cost, \$8,000. Two dwellings, brick, 3 stories, 16x51 feet, 1317-1319 Foulrod street.

Union Petroleum Company (O), 135 South Second streets. Cost, \$2,700. Storage, brick, 1 story, 120x160 feet, Swanson and Mifflin streets.

Jewish Foster Home (O), Chew and Church streets. Freund Seidenback (C), Bulletin Building. Cost, \$11,000. Brick, 1 story, 39x60 feet. Cost, \$12,500. Synagogue, brick, 1 story, 35x51 feet, Chew and Church streets.

Chapin Memorial Home (O), 6713 Woodland avenue. W. R. Erb (C), 4531 Haverford avenue. Cost, \$6,500. Home, stone, 2 stories, 32x40 feet, 6713 Woodland avenue.

Archbishop E. F. Prendergast (O), Eighteenth and Race streets. W. J. McShane (C), 417 South Thirteenth street. Cost, \$27,200. Convent, brick, 3 stories, 36x96 feet, Twentieth and Dickinson streets.

J. Feldman & Sons (O), 1017 Jackson street. Cost, \$3,200. Two stores and dwellings, brick, 2 stories, 15x44 feet, Ross and Horter streets. Cost, \$21,600. Eighteen dwellings. Cost, \$10,800. Nine dwellings. Cost, \$1,200. One dwelling. Cost, \$2,400. Two dwellings. Cost, \$6,000. Five dwellings. Cost, \$1,600. Store and dwelling.

Polish American Citizens' Club (O), Orthodox and Bermuda streets. A. H. Margoski (C), 2416 Orthodox street. Cost, \$7,300. Club, brick, 2 stories, 24x80 feet, Orthodox and Bermuda streets.

J. Campbell Company (O), 5629 Edmond street. J. A. Hance (C), 8029 Frankford avenue. Cost, \$3,000. Manufacturing, brick, 1 story, 36x40 feet, 5629 Edmond street.

C. E. Biddle (O), Twentieth and Cheltenham avenue. Cost, \$26,000. Thirteen dwellings, brick, 2 stories, 15x23 feet, Woodstock and Cora streets. Cost, \$78,000. Thirty-nine dwellings.

J. A. Killpatrick (O), 6613 North Sixth street. F. R. Hill (C), 6700 North Sixth street. Cost, \$7,000. Residence, stone, 3 stories, 38x45 feet, Oak Lane, Philadelphia.

A. Rothbatt (O), 5160 Thompson street. H. Roloff (C), 807 Snyder avenue. Cost, \$2,500. Dwelling and store, brick, 2 stories, 16x30 feet, 5162 Thompson street.

H. Beckerhoff (O), 5156 Haverford avenue. Cost, \$2,500. Dwelling, brick, 2 stories, 15x43 feet, Spruce and Hirst streets. Cost, \$5,000. Two dwellings. Cost, \$14,500. Seven dwellings. Cost, \$10,000. Five dwellings.

W. H. Windolph (O), 28 South Twelfth street. J. D. Fisher (C), 5718 Market street. Cost, \$4,000. Garage, brick, 1 story, 48x112 feet, Sixty-second and Cedar avenue.

Howard Branson (O), 1210 Race street. J. C. Magill (C), 1817 South Alden street. Cost, \$1,350. Store and dwelling, 5506 Chester avenue.

M. A. Fenney (O), 4474 Germantown avenue. Brilliant Manufacturing Company (C), 1035 Ridge avenue. Cost, \$1,205. Sign, 4474 Germantown avenue.

Young Men's Republican Club (O), 3041 Frankford avenue. G. Wolff (C), 2010 Hazard street. Cost, \$995. Dwelling, 3041 Frankford avenue.

Peter Motley (O), 750 South Broad street. J. S. Sillers (C), 2020 Alter street. Cost, \$700. Dwelling, 720 South Broad street.

E. W. Clark (O), Chestnut Hill, Philadelphia. Stokes Brothers (C), 6723 Musgrave street. Cost, \$1,200. Barn and stable, Chestnut Hill, Philadelphia.

A. S. Tourison (O), 7014 Boyer street. Cost, \$1,500. Garage, Sedgwick and Ardleigh avenues. Cost, \$200,000. Two dwellings, stone, 3 stories, 27x41 feet. Cost, \$13,500. Two dwellings.

T. C. Connell (O), 2154 Park avenue. Cost, \$1,000. Hall, 2156 Park avenue.

C. Zitzer (O), Seventeenth and Susquehanna avenue. Basch & Co. (C), 1436 South Front street. Cost, \$1,000. Store, Seventeenth and Susquehanna avenue.

H. Ruhland (O), Land Title Building. J. F. Myers, Jr. (C), 1327 Ridge avenue. Cost, \$2,500. Residence, 2335 Sedgley avenue.

Y. W. C. A. (O), Eighteenth and Arch streets. Charles Gilpin (C), Harrison Building. Cost, \$1,200. Residence, Allegheny avenue and Hancock streets.

A. Bowmen (O), 2135 Erie avenue. F. A. Havens Company (C), 845 North Nineteenth street. Cost, \$3,000. Store and dwelling, 4925 North Broad street.

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Philadelphia.

Alterations and Additions

New Berean Baptist Church (O), Fifty-ninth and Pine streets. J. D. Fisher (C), 5718 Market street. Cost, \$820. Church, Fifty-ninth and Pine streets.

P. De Stepano (O), Thirteenth and Dickinson streets. P. Palombo (C), 717 Christian street. Cost, \$1,800. Store and dwelling, Thirteenth and Dickinson streets.

C. C. Harrison (O), 316 Walnut street. William R. Dougherty (C), 1610 Sansom street. Cost, \$600. Manufacturing building, 919 Walnut street.

L. Myerson (O), 701 South Fourth street. M. Yacknitz (C), 1202 South Seventh street. Cost, \$2,275. Store and dwelling, 701 South Fourth street.

Thomas Potter & Sons (O), Second and Erie avenue. Harry Brocklehurst (C), 502 West Norris street. Cost, \$2,700. Office, Second and Erie avenue.

Kahn & Greenberg (O), Morris Building. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$8,000. Garage, 2415 North Broad street.

J. J. Curran (O), Fifty-second and Race streets. H. P. Werner (C), 3245 Germantown avenue. Cost, \$4,600. Store and dwelling, Fifty-second and Race streets.

W. Pfeiffer (O), Seventh and Allegheny avenue. H. P. Warner (C), 3245 Germantown avenue. Cost, \$1,600. Store and dwelling, Seventh and Allegheny avenue.

Ellis D. Williams (O), Drexel Building. A. S. Broan (C), 1901 Clearfield street. Cost, \$1,750. Store and dwelling, 2642 Kensington avenue.

Dr. W. H. Greene (O), 2130 Spring Garden street. William Steele & Sons Co., (C), 1600 Arch street. Cost, \$1,800. Dwelling, 2130 Spring Garden street.

Play-it-on-a-hunch advertising is not the kind that wins out. The steady, persistently repeated note of appeal is what tells.—Cement World.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The annual meeting of the Joseph Dixon Crucible Company was held at the company's office in Jersey City, N. J., April 20. There was a large attendance of stockholders, who expressed their satisfaction with the management and re-elected the board of directors as follows: George T. Smith, William Murray, George E. Long, William G. Bumsted, J. H. Schermerhorn and Harry Dailey. The officers elected by the board of directors are: President, George T. Smith; vice-President, George E. Long; treasurer, J. H. Schermerhorn; secretary, Harry Dailey; assistant secretary and assistant treasurer, Albert Norris.

**Colby & Cristie, inspectors of steel and reinforced concrete, Philadelphia, Pa., have moved their New York office from 1 Madison avenue to 51 East Forty-second street. The firm is represented in New York by C. S. Bilyen.

**Frank Gould, who recently resigned as sales manager of Henry Disston & Sons, Inc., Philadelphia, Pa., became president May 1 of the Bishop Company, which takes over the business of George H. Bishop & Co., saw manufacturers, Lawrenceburg, Ind. Charles R. Bishop retires, while Charles E. Bishop, Jr., will continue to take an active part in the business. Mr. Gould has been in the employment of the Disston house from the time he was 11 years old, starting in as an office boy.

**P. G. Paist, formerly of the firm of Hewitt, Granger & Paist, architects, has opened an office for the independent practice of his profession, at 1613 Chestnut street, Philadelphia.

**At a recent meeting of the Board of Directors of the Builders' Exchange of Pittsburgh, held at their headquarters, 207 Fulton Building, 15 new members were elected to the organization. At this gathering George T. Heppenstall, who attended a meeting of a committee to discuss industrial accident and the workmen's compensation bill, made an interesting report of his observations. The Exchange is in a flourishing condition and has recently added another room containing 1,000 square feet of floor space, which will be given over entirely to the use of desks for members. This permits of the addition of 12 new desks, making 25 in all.

**Atlantic City has been chosen for the seventeenth annual meeting of the American Society for Testing Materials, on June 30-4. Headquarters will be at the Hotel Traymore.

**The Kewanee Manufacturing Company, Kewanee, Ill., held its annual meeting early in April, when officers for the ensuing year were elected as follows: President, Dr. H. J. Stewart; vice-president, B. S. Wallick, and

secretary and treasurer, John R. Collette. The results of the business during the past year showed a gratifying increase, and to the stockholders who were present the reports for the past twelve months were a pleasing surprise. The busiest season of the year for the company is now at hand, and the company has installed some additional machinery in order to promptly handle the orders which are coming in.

**The American Society of Civil Engineers will hold its annual convention at Baltimore, Md., June 2-5. Secretary, Charles W. Hunt, 220 West Fifty-seventh street, New York City.

**A. J. Cropp & Co., makers of the Cropp Concrete Mixer, occupied new quarters on May 1 at 1840-2 Carroll avenue, Chicago, Ill. This concern makes what is known as a double chamber drum mixer embodying some unusual features which cannot fail to command the attention of building contractors who have occasion to do any considerable amount of concrete work.

**The National Association of Sheet Metal Contractors will hold its annual convention at Cincinnati, O., June 16-19. Headquarters at the Hotel Gibson.

**J. J. Blackmore, secretary of the United States Radiator Co., has been appointed secretary of the American Society of Heating and Ventilating Engineers, succeeding Edwin A. Scott, who recently resigned.

**The T. L. Smith Company, 3120 Hadley street, Milwaukee, Wis., makes announcement of the fact that it has taken over the Chicago mixer formerly sold by the Chicago Concrete Machinery Company, and hereafter it will form a part of the regular line of the T. L. Smith Company. This particular machine we understand has been entirely re-designed and will be known as the "Smith-Chicago Mixer."

**The National Electrical Contractors' Association will hold its annual convention at the Cadillac Hotel, Detroit, Mich., June 15-18.

**The National Association of Master Plumbers will hold its annual convention at Atlantic City, N. J., June 16-8. Headquarters at Hotel Rudolf.

**The New Jersey Master Plumbers' Association will hold its annual convention at the Hotel Rudolf, Atlantic City, N. J., June 15.

**The Master Steam and Hot Water Fitters' Association will hold its annual convention at Atlantic City, N. J., June 10-13. Headquarters at the St. Charles' Hotel.

**At the recent convention of the National Builders' Supply Association, held in Chicago, Ill., Edward M. Hagar, president of the

Universal Portland Cement Company, delivered a very interesting address on "Dealers' Profits," the subject matter having to do with dealers in cement and other builders' materials.

**The National Hardware Association meets at Hotel Statler, Buffalo, Thursday, June 18. The New York Central will run a special train from Chicago on the evening of June 17, which will carry large delegations from the South and pick up large contingents en route. There will be the usual representative attendance from the hardwood producing sections of the Southwest and Nashville lumberman, who are on a "boost" trip, will include the Buffalo convention in their itinerary.

**Brooklyn Chapter, American Institute of Architects, William P. Bannister, president, has sent a communication to Borough President Pounds of Brooklyn, in which it asked that the architect for the proposed new County Court House be chosen by competition. The Chapter, as a body, feels that in a work of such importance, the design and plan should be selected by a jury of experts in architecture and not by one individual.

**The American Society of Engineers, Architects and Constructors, at their first regular meeting, held at the United Engineering Building, May 12, elected the following officers to serve during the current years: President, Major Samuel S. Hatfield, assistant engineer U. S. A.; first vice-president, Oliver Randolph Parry, architect; second vice-president, Charles N. Green, M. A. S. C. E.; third vice-president, Louis F. Hackadorn, constructor; treasurer, Charles F. Dingman; secretary, T. Hugh Boorman, C. E.; foreign corresponding secretary, Col. J. W. Howard, U. S. A.; chaplain, Edmund Banks Smith, U. S. A.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

Many a man has a "Do It Now" motto over his desk and cobwebs on his brain and dust on the desk.

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The Philadelphia Real Estate Record and BUILDER'S GUIDE

PUBLISHED WEEKLY

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Irving Dillon.....Editor

PHILADELPHIA, PA., JUNE 3, 1914.

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Editorial Comment

As this number of the "Guide" goes to press the city is busy entertaining one of the largest and most important gatherings of men prominent in the electrical industry ever assembled in one city. It is estimated that not less than 5,000 well-known electrical men are here to attend the 37th convention of the National Electric Light Association, which opened its deliberations on Monday evening at the Bellevue-Stratford.

Philadelphia hospitality will be extended on an almost unprecedented scale. Local business organizations, merchants and commercial institutions have arranged elaborate programs for their entertainment, and a mammoth electric arch, spanning Broad street between the Ritz-Carlton and Bellevue-Stratford Hotels, will send out a blazing light of welcome to the convention delegates.

Engineers, inventors, manufacturers and research experts will spend the entire week in the discussion of subjects of vital interest to their profession.

The remarkable expansion of the electrical business during the last ten years and the problems facing it at the present time will receive considerable attention at the sessions. Plans will be discussed for the further development of the industry, which is said to offer a broad field for the profitable investment of \$400,000,000 a year for the next five years. A number of well-known financiers will be on hand to take part in the discussions.

Among the prominent men in the realm of electricity who will attend are: Thomas A. Edison, Alexander Graham Bell, Prof. Elihu Thomson, formerly of Philadelphia; Theodore N. Vail, president of the American Telegraph and Telephone Company; Dr. E. A. Kennelly, Dr. C. P. Steinmetz, Charles F. Brush, Dr. Edward Weston, Charles L. Edgar, president of the Edison Electric Illuminating Company, of Boston; Samuel Insull, president of the Commonwealth Edison Company; Frank H. Sprague, E. W. Rice, president of the General Electric Company; E. M. Herr, president of the Westinghouse Electric and Manufacturing Company; J. W. Lieb, Jr., New York Edison Company, and many others.

* * *

Elbert Hubbard will talk on "Co-operation Among Electrical Interests" at to-day's session.

Eminent speakers on technical subjects in their relation to industrial work generally, and electricity specifically, have been procured for all of the sessions. In connection with the report of the Committee on Accident Prevention, there will be an address by M. J. Insull, of Chicago. It is contended in electrical circles that the "Safety First" movement is farther advanced in the trades devoted to the generation and distribution of electric current than in any other.

Dr. C. P. Steinmetz, consulting engineer for

the General Electric Company, will read a paper on "The Electric Motor Vehicle," discussing its possibilities as a method of transportation.

The Philadelphia Electric Company has issued a volume of statistical data and information regarding Philadelphia in commemoration of the convention. It is a stout volume of nearly 500 pages, handsomely printed on excellent stock, and contains a vast fund of important data. It is copiously illustrated with artistic plates of the interesting points around Philadelphia, and also gives a great deal of interesting details of Philadelphia's industrial achievements, a history of the municipal organization, etc.

It is in all respects a praiseworthy recognition of the national convention. It is creditable to the Publication Committee of the electric company, which consists of Alfred L. Atmore, chairman; J. Morton Fultz, William H. Donley, Charles Penrose and Charles J. Russell. The secretary of the Editorial Subcommittee was Frank A. Birch.

* * *

The address of Mr. Lawson Purdy, of New York, delivered before the Business Science Club, pointed out the economic fallacy of the idea that high buildings do not injure surrounding property in such a way as to arouse a wholesome local interest in the question of restricting building heights.

Mr. Purdy is president of the Department of Taxes and Assessments of New York City, and was well equipped with practical knowledge that made his talk instructive and interesting. His address was as follows:

"In the United States we have generally been so anxious that the law should not limit the freedom of citizens that we have neglected to protect the citizen from the aggressions of his neighbors. Especially is this true of the owners of real estate. We have left each one almost entirely free to use his land as he pleases and have failed to protect him in any way from the use by his neighbor of his land in such fashion as to injure others. No one should be permitted to use his land as to encroach upon the equal freedom of all his neighbors.

"Until the elevator was invented and later the steel frame building, there was comparatively little need for any restrictions upon the height of buildings and restrictions generally had to do with the area of land that might be covered. To-day in our larger cities, the necessity is apparent for careful regulation covering height, and more careful regulations than in the past, covering the proportion of the lot that may be covered by the building. In substantially all the cities of Northern Europe, real estate owners are so protected that their neighbors may not deprive them of adequate light, air and access, and in many cities owners are protected from the erection of buildings of such offensive ap-

pearance as to injure the value of neighboring land.

"The time to impose restrictions is before the damage has been wrought. Here in Philadelphia, owing perhaps to the shape of the city, the need of height regulation has been less apparent than in many other cities. In the city of New York the need of regulation is more imperative than in any other city on this continent. In part of the borough of Manhattan, lack of regulation already has resulted in enormous damage that can never be cured. It is not too late, however, to protect the remainder of the city.

* * *

"A little more than a year ago a committee of the Board of Estimate and Apportionment was created to consider the matter of height, size and regulation of buildings. This committee appointed an advisory commission that worked during the summer and autumn, and presented its report in the latter part of December. That report now has been printed and contains, besides the report proper, much valuable information concerning the regulations to Europe and in American cities, together with testimony of experts who appeared before the commission.

"The commission recommended that the Board of Estimate and Apportionment should be empowered to district the city and to impose suitable regulations upon the height and bulk of buildings in each district; also to district the city with a view to appropriate restrictions upon industries and trades being introduced into particular sections. The legislation recommended by the commission was enacted, and the Board of Estimate and Apportionment is now considering the appointment of a commission provided for in the new law to consider appropriate regulations and districts, and report them to the Board of Estimate and Apportionment for their consideration and action.

"The evidence presented to the commission that sat last year was very impressive as to the damage already caused by the erection of buildings of such height and bulk as to restrict light and air, and even to cause congestion of persons in day time, which the existing streets cannot accommodate. It is a very surprising fact that the number of buildings in the borough of Manhattan more than ten stories high is only 1,048 out of a total of 92,749 buildings, when one considers the impression conveyed by the presence of lofty buildings in Manhattan and the damage that has been done by many of the buildings already erected. It is said that there are few office buildings over 18 stories high below Chambers street that pay reasonable return upon the cost of land and building. I have seen the effect upon an existing building of the erection of an equally tall building next to it, shutting off its light and air. The rentals on the side thus closed up were reduced by two-thirds, and from being a profitable investment the building became decidedly an unprofitable investment.

* * *

"It is true not only of office buildings, but also of loft buildings and apartment houses.

In many sections the intrusion into territory built up with single family dwellings of a lofty apartment house has resulted in the immediate depreciation in value of at least one-third of the value of those single family dwellings, and in many cases the erection of a few apartments has substantially destroyed all the value of dwelling houses. The rapid change in the character of districts, due to the failure to regulate building, thus has resulted in the loss of millions of dollars worth of buildings, causing a general loss to the community and causing heavy losses to fall upon many owners.

"Any one familiar with the character of European cities which have grown as rapidly as American cities of similar size knows what an orderly appearance they have. Their orderliness is due to the careful protection of the rights of real estate owners by a careful regulation of the height and bulk of buildings.

"For the sake of the health and safety of the community, and for its economic well-being, we must have in the United States regulations carefully framed by districts which will stabilize values, enhance the value of land and conserve the value of buildings."

* * *

New York is very much in earnest in its fight against overlapping inspection. At a recent meeting of the new Advisory Council of Realty Interests an organization was completed and a plan of campaign mapped out to combat the growing and intolerable interference of petty officialdom with the owner of real estate. It aims at once to foster existing organizations interested in real estate matters and to advise them. It will obtain the best information and opinion upon all legal and legislative questions as well as all technical and practical matters affecting real estate. It will establish a board of counsel consisting of voluntary members who are authorities in their peculiar legal specialties, also an advisory staff of experts, such as engineers, architects, constructors, real estate operators and others who are regarded as best equipped in their particular fields of activity.

The Board of Counsel will consist of a central committee which will study all legislative matters, and additional sub-committees of lawyers selected for their authoritative knowledge upon the subject matter to be considered. Thus the Advisory Council will be reinforced by the best legal, technical and scientific authorities to place its decisions and determinations upon a basis well supported both in theory and fact. The ultimate result is expected to be of value to the city itself as well as to property owners.

"Conflict or orders and duplication of inspection of buildings have become oppressive, and at times the owners and tenants do not know which of various conflicting orders to obey. It is not for the best present interests of the city nor for its future development to permit these conditions to continue," says the Council, "for in the mean time tenants and owners will find it to their best advantage

to rent and purchase in other cities and States where more liberal opportunities are presented."

* * *

It was resolved to commend the efforts of Borough President Marks to diminish the over-regulation of buildings and the multiplication of conflicting orders from city departments. The Council offers to assist the Mayor and Board of Estimate in work along these lines.

The council adopted resolutions in support of the work of the Citizens' Union with reference to the study of problems likely to come before the Constitutional Convention affecting taxation and property. It also announced opposition to the adoption in this State of any form of single tax legislation, including the plan commonly known as "halving the tax upon improvements" and indorsed the plan of the Allied Real Estate Interests to conduct a campaign of education on the single tax, urging citizens and organizations to co-operate toward this end.

RECENT TRADE LITERATURE.

The new catalogue of the Keystone Blue Paper Company, of Philadelphia, is one of the most complete, comprehensive and conveniently arranged publications of the kind we have ever examined. Printed in three colors, with a most attractive cover in flexible board, and on super calendered paper. Throughout this catalogue is at once attractive, handy and readable. Nearly every article (and the company handles everything in drawing materials) is illustrated and priced as per list, fluctuations being provided for by a discount sheet. The Keystone Blue Paper Company has its offices at 910 and 912 Filbert street, Philadelphia, its factory and warehouse at 912 and 914 Cuthbert street. Architects, engineers, draftsmen and scientific people generally will find it a distinct advantage to have this new catalogue of the Keystone Company close at hand. A copy will be sent on request to parties interested.

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THE VALUE OF WASTE.

Millions of Dollars Saved Annually in Material Once Thrown Away.

No longer is it a secret that a considerable part of the income derived by clever managers for their buildings is from the marketing of waste products that come out of offices. Managers frequently marvel at the liberal size of the bids made in the fierce competition existing between scavengers seeking the privilege of carting away the trash from business buildings, hotels, apartment houses and even tenements, but the answer to the problem was forthcoming at the meeting of the National Association of Waste Material Dealers.

A member stated that an annual business of \$700,000,000 is done in salvaging stuff of all kinds that the country throws out as useless.

One concern pays the management of the McAlpin Hotel a large sum each year for the metal tops that come off beer bottles. The cork inside is used in making cheap life-preservers and insulating material for floors. The tin from these tops is chopped up and has a part in the manufacture of silk and for making metalized roofing material. There are gleaners of these metal tops in every hotel, restaurant and saloon in New York.

The bits of soap left by guests in the hotel rooms are used in making marble wash and for scouring tile floors if they are not remelted into larger sized soap cakes for the service department of the hotel. The oily waste that the engineer uses to clean up his engine with is bought and the oil is pressed out, refined and sold for cheap lubricants. Garbage is sent to Barren Island where it comes forth as the body of cheap perfumes, that is, that part of the vegetable oils that remains after the more valuable parts have

been extracted from them for greases of one kind or another.

Waste Paper.

The waste paper is baled and sorted. Some of the linen bond is used for making a slightly inferior writing paper. Other kinds, according to their value in texture find their way into packing rooms of department stores, the newspaper is pulverized and finds its way into commercial cardboard after other ingredients have been used. Waste hemp rope produces mops, string and mats, composition floorings, wall lining, roofing, and is also used as a substitute for bonding material in making lime mortar. Old carpet is transformed into writing paper and rugs. Cigarette butts and cigar stubs are garnered for fertilizer.

For the calendar year 1913 cotton rags were exported to the value of over \$500,000, paper stock other than cotton rags to the value of over \$800,000, woolen rags to the value of \$1,000,000, scrap iron to the value of \$1,200,000, old and reclaimed rubber to the value of \$1,600,000, and scrap brass to the value of over \$2,000,000. The figures of the imports of waste materials from foreign countries are even more striking. In the year 1913 scrap iron was imported to the value of \$500,000, old copper to the value of \$1,000,000, silk waste to the value of \$3,000,000, old rubber to the value of more than \$3,000,000, cotton rags to the value of \$3,000,000, and other paper stock which was neither cotton rags, nor wood pulp to the value of nearly \$5,000,000.

THE VALUE OF ENGINEERS.

For many years the value of the engineering force in large structures has been more or less minimized and the true importance of its work overlooked. During the last few years there has been a change in conditions, for it has been repeatedly demonstrated that an inefficient engineering force will ruin absolutely the owner's chances of obtaining an adequate return upon his money invested. G. J. Miller in speaking of this subject said last week:

"Occasionally some representative of building management attempts to minimize engineering talent and boost the building managers, thereby advertising mutual shortcomings and accomplishing nothing.

"The first and paramount position in management of buildings naturally comes to the man that has made real estate and its financing a study. He must be one versed in every art pertaining to his business. His judgment must be excellent and place his services where they bring the maximum results with a minimum friction; this he can best do by pleasing his tenants through the agency of a well-equipped personnel; he cannot shirk the responsibilities that make his calling one of importance.

"The actual operation of a building rightfully belongs to a man who is a master mechanic and steam engineer, one who has a practical and theoretical training, gleaned by experience of many years; who knows the

people he supervises, their habits and customs, and is respected by them for his abilities; for it is a fact that the actual operation of a modern building is four-fifths mechanical and constructional. The day of the educated head-porter-superintendent has passed, and with it has vanished the individual owner-manager.

Misapplied Efforts.

"When we see a building manager wasting his time on cheese cloth or buying oil by test, we cannot refrain from stating that the engineering department, can, by leaky boiler setting or valves, waste more money in two weeks than the entire cost of janitor's supplies for one year. When we realize that the janitor's supplies against engineer's supplies (construction, alterations, maintenance, etc.) are as one is to twenty; and that the wages of the engineering department are one-third the entire pay-roll, notwithstanding the fact that only 20 per cent. of the entire personnel of buildings are in that department we will understand its relative importance.

"Let the building managers unite and demand better conditions and establish their power by mitigating the present evils that almost amount to confiscation of property by municipal and state departments that have sprung up over night, that place violations on buildings and have not even a code to guide their recommendations, which recommendations sometimes conflict.

"The only men who are competent to rightfully judge these matters are those who have been trained in managing and operating buildings; for, financially, a building can stand only a certain expenditure a year.

TENEMENTS IN OLD ROME.

Tenement houses existed in early Rome in the year 69 A. D., and that they were of considerable height is evidenced by the fact that Martial refers to a poor man of his acquaintance who had to mount 200 steps to reach his dark garret chamber. Total collapse of these structures was no uncommon occurrence, says a writer in "Harper's Weekly, and companies existed for the purpose of reinforcing and propping houses. The Emperor Augustus, as a safety measure, limited the height of new houses to about 68 feet, which shows that some structures previously built exceeded that figure. Many of the streets of ancient Rome were very narrow and light must have been at a premium in these tall tenements.

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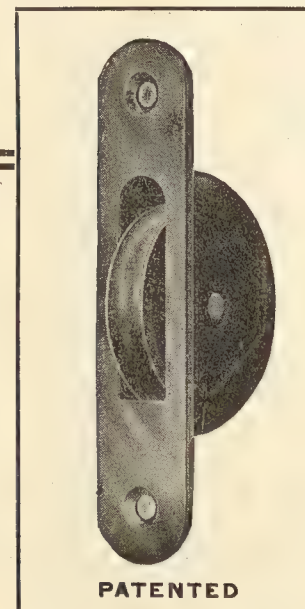
STORES:

New York: Cor. Grand and Greene Sts.

Boston: 165 Pearl Street.

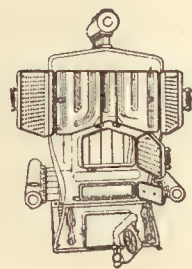
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NOTICE TO CONTRACTORS!

New County Building for New Castle County and

New Municipal Building for the City of Wilmington.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions, in the Church Building, at the corner of Market and 10th streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M., Eastern time, on June 10, 1914, for structural steel and erection entering into the construction and completion of the New County Building for New Castle County and the New Municipal Building for the City of Wilmington, situated between King street and French street, and between Tenth and Eleventh streets, in the city of Wilmington, Del., and to be opened publicly and declared by the Commissions in their office.

A separate proposal will be required for each of the two buildings.

Each proposal shall be accompanied by a certified check in the amount of \$6,000.

The Commissions reserve the right to reject any or all proposals received, if they consider it to the best interests of the county or city so to do.

The surety required to guarantee the faithful performance of the work will be one or more bonds executed by one or more guarantee or surety companies aggregating in amount 50 per cent. of the amount of the contract.

The contract provides that the work shall be completed within one hundred and twenty (120) calendar days from the date of notice to start work.

On and after June 1st the drawings and specifications, the form of contract, the bond and blank forms for proposals may be obtained at the office of the architects, John Dockery Thompson, Jr., and Palmer, Hornbostel & Jones, Associated, No. 809 Ford Building, Wilmington, Delaware. One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the Architects and upon the payment of a deposit of \$50.00. This deposit will be forfeited if the drawings and specifications are not returned to the Architects in good order before June 15, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

Plans and specifications will be supplied to material men, sub-contractors and others wishing to submit to the contractors figures for the various classes of work, upon reasonable notice to the Architects and upon the payment of the net cost of the plans and specifications required.

THOMAS F. GORMLEY,

Secretary of the New Castle County Building Commission and the Wilmington Building Commission.

NOTICE TO CONTRACTORS!

New County Building for New Castle County and

New Municipal Building for the City of Wilmington.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission at the office of the Commissions, in the Church Building, at the corner of Market and Tenth streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M., Eastern time, on June 10, 1914, for the general excavation entering into the construction and completion of the New County Building for New Castle County and the New Municipal Building for the city of Wilmington, situated between King street and French street and between Tenth and Eleventh streets, in the City of Wilmington, Delaware; and to be opened publicly and declared by the Commissions in their office.

A separate proposal will be required for each of the two buildings.

Each proposal shall be accompanied by a certified check in the amount of \$500.00.

The Commissions reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of the work will be one or more bonds executed by one or more guarantee or surety companies aggregating in amount 50 per cent. of the amount of the contract.

The contract provides that the work shall be completed within seventy (70) calendar days from the date of notice to start work.

On and after June 1st, the drawings and specifications, the form of contract, the bond and blank forms for proposals may be obtained at the office of the architects, John Dockery Thompson, Jr., and Palmer, Hornbostel & Jones, associated, No. 809 Ford Building, Wilmington, Delaware. One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the architects, and upon the payment of a deposit of \$50.00, this deposit to be forfeited if the drawings and specifications are not returned to the architects in good order before June 15, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

THOMAS F. GORMLEY,

Secretary of the New Castle County Building Commission and the Wilmington Building Commission.

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INCREASED COST OF BRICK IS OFFSET BY THE LESSER UPKEEP.

A report recently made by the committee on fire protection of the Boston Chamber of Commerce includes some interesting figures on the comparative cost of frame and brick construction for dwelling houses, says the "Insurance Post." The conclusion was that the slightly greater cost of brick, which average under 10 per cent. more than frame, was more than offset in a few years by the lesser cost of maintenance and insurance and by the greater comfort and durability of the structure.

The report says that when lumber was cheap and brick was more expensive than now, the idea became general that the cost of brick as compared with frame was almost prohibitive, and this continues, although the conditions have changed so radically that the cost is now little more and the ultimate cost less.

Bids were obtained on a modern eight-room house, of good design and excellent arrangement, such as is frequently built in and about large cities, and on these the bids of the five contractors varied comparatively little, and so the average was taken as a fair test of the practical cost, the contractors including their profits in all cases. The average bid for the various types was as follows, the second column showing the percentage of excess cost of each type over the clapboard type:

	Per Cent.
Clapboard	\$6,759 .00
Shingle	6,868 1.06
Ten-inch brick wall, hollow...	7,372 9.10
Twelve-inch brick wall, solid...	7,641 13.00
Stucco on hollow block.....	7,187 6.30
Brick veneer on hollow block.	7,483 10.70
Stucco on frame.....	6,952 2.90
Brick veneer on boarding....	7,226 6.90
Brick veneer on studding....	7,153 5.80

The committee corresponded with contractors in various parts of the country in making up its report, and found from them that brick buildings were commonly estimated to cost 10 per cent. more than frame, while brick veneered buildings could be put up in many sections for 5 per cent. more than the cost of frame buildings, the difference in cost being usually more than offset by the lessened insurance premium.

Economy of heating a well built brick house is apparent and it is a well-known fact that the brick house is cool when the weather is hot and warm when it is cold on the outside.

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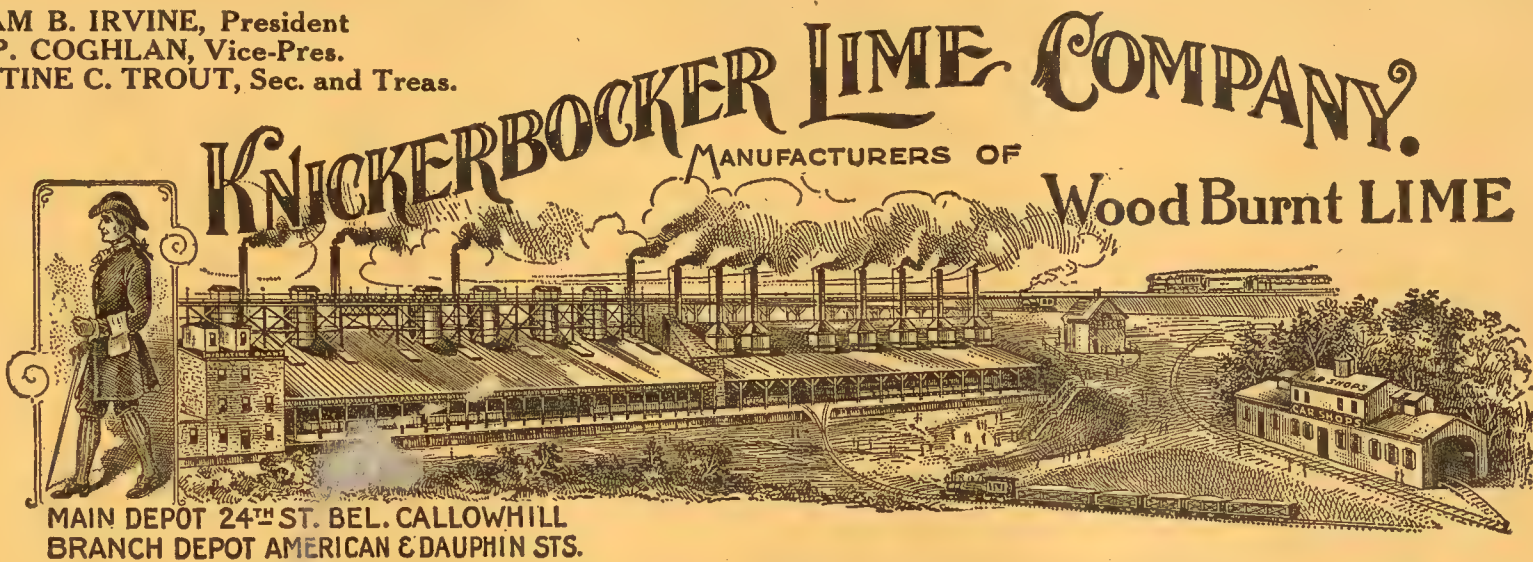
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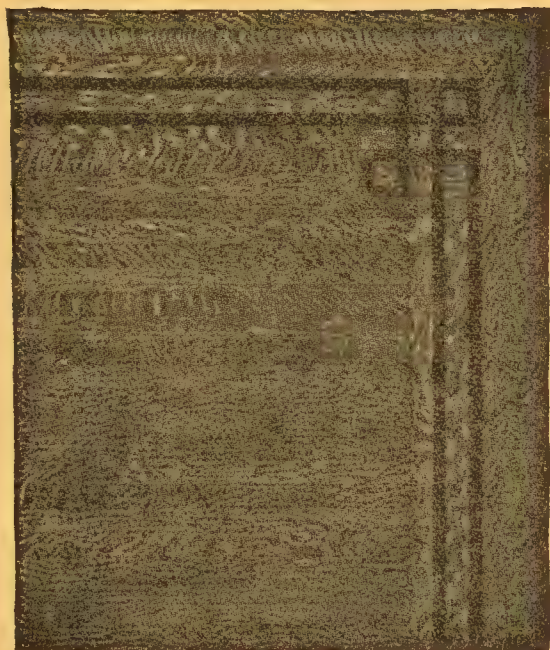
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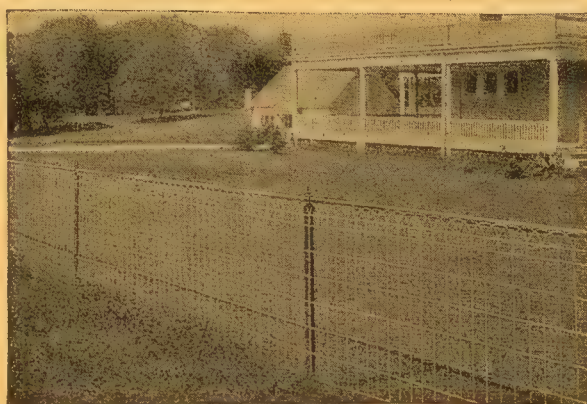
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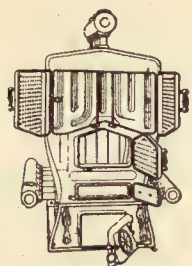
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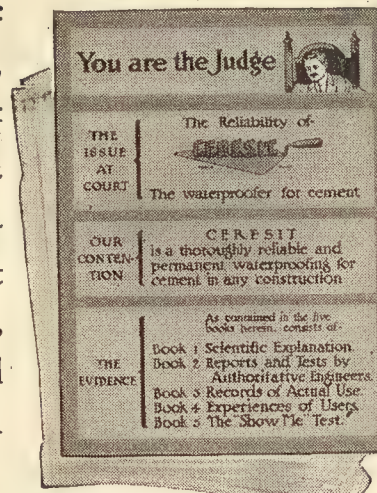
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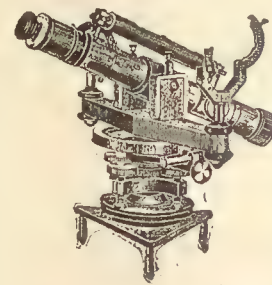
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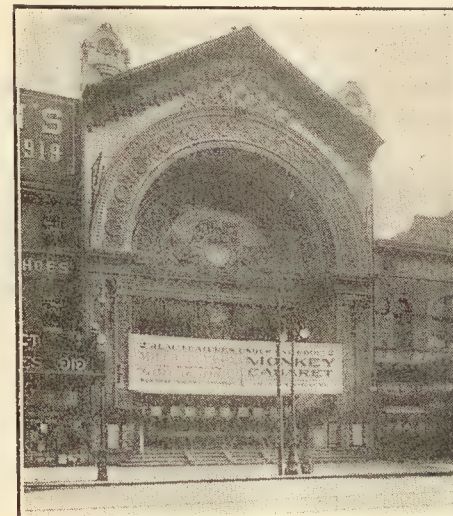
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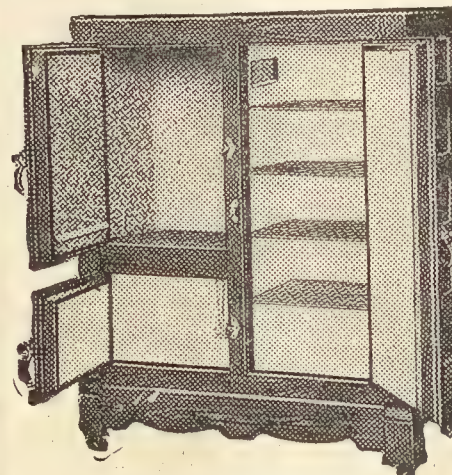
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory (alt. and add.), 2324-26 Sydenham street. Architect, Benjamin R. Stevens, 1737 Filbert street. Owner, J. B. Gillies, Broad street and Susquehanna avenue. Brick, 2 stories, 38x84 feet, slag roof, steam heating, electric lighting, elevators. Architect has received bids.

Garage, 4805-07 North Broad street. Architect, private plans. Owner, Morris M. Gibb, York road and Rockland street. Brick, 1 story, 60x140 feet, slag roof, steam heating, electric lighting, expanded metal, gasoline system. Owner taking bids. Stewart Bros., 2526 North Orkney street, are figuring.

Garage, St. Martin's, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, Dr. George Woodward, North American Building. Stone and brick, 1 story, 26x41 feet, shingle roof, hot water heating, electric lighting (gasoline storage reserved). Revised plans in progress.

Farm House (alt. and add.), Walnut Hill, Pa. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets. Owner, George H. Lorimer, Wyncote, Pa. Frame, 2 stories, shingle roof, steam heating. Architects taking bids due June 12th. The following are figuring: J. Sims Wilson, 1125 Brown street; H. H. Burrell, 1204 Chancellor street; F. L. Hoover & Sons, 1023 Cherry street; William H. Eddleman, 453 Green lane, Roxborough, Philadelphia; Joseph Ashby, Second street pike, Fox Chase, Philadelphia.

Stores (alt. and add.) (3), Fifty-seventh and Pine streets. Architect F. N. Greisler, Lafayette Building. Owner, James Kullidjian, on premises. Brick, 2 stories, slag roof, electric lighting, oak floors. Plans in progress.

Residence (alt. and add.), 640 Carpenter street, Germantown. Architect, J. Horace Frank, Real Estate Trust Building. Owner, Mr. E. J. Flood, 616 East Sedgwick street. Frame, 2½ stories, 26x35 feet, shingle roof, electric lighting hot air heating and parquet floors reserved). Architect has received revised bids.

School (add.), Forty-ninth and Parrish streets. Architect, J. Horace Cook, Land Title Building. Owner, Board of Education, City Hall. Brick and concrete, 2 stories and base-

ment, 2 wings, 28x71 feet each, slate roof (steam heat and electric light reserved). Lowest bid submitted by A. Bottoms Sons Co., 41 South Fifteenth street.

Residence (alt. and add.), 1732 Pine street. Architect, C. S. Paxson, 729 Walnut street. Owner, Dr. J. H. Rhein, on premises. Brick, 3 stories, slag roof, electric lighting, oak floors, metal lath. Architect taking bids, due June 11th. William R. Dougherty, 1610 Sansom street, is figuring.

Club House (alt. and add.), 251-253 South street. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Coin D'Or Club, care of Yarnall Abbott, Abbott building. Brick, 2 stories, 18x20 feet, slag roof, steam heating, electric lighting. Plans in progress. Bids in about two weeks.

Manufacturing Building, Seventeenth and Lombard streets. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Charles Lentz, 18 North Eleventh street. Brick and terra cotta, fireproof, 5 stories, 45x51 feet, slag roof, steam heating, electric lighting, composition floors, safety treads, steel sash and frames, metal lath. Architects have received bids.

Factory Building, Hutchinson and Parrish streets. Architects, William Steele & Sons, 1600 Arch street. Owners, Powers, Weightman & Rosengarten, Ninth and Parrish streets. Brick, steel and concrete, 6 stories, 71x74 feet, slag roof, steam heating, electric lighting, elevators, metal lath, kalamein doors, metal frames and sash, waterproofing. Builders, William Steele & Sons, 1600 Arch street, taking sub-bids due June 10th.

Residences (2), 2002-2204 North Second street. Architect, P. J. Klings, 1012 Walnut street. Owner, Mrs. C. Kaiser, care of Architect. Brick, 2 stories, 18x46 feet, tin roof, hot water heating, electric lighting, hardwood floors. Architect has received bids.

Building (alt. and add.), 1505-07-09 Arch street. Architect, Clyde S. Adams, 1509 Arch street. Owner, R. W. Olhauser, 1509 Arch street. Brick, 4 stories, consists of new stone front. Architect has received bids.

Residence (alt. and add.), 2205 Walnut st. Architects, Magaziner & Potter, 603 Chestnut

street. Owner, S. P. S. Mitchell, on premises. Brick, 4 stories, slag roof, hot air heating, electric lighting. Architect taking bids due June 10th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; Loos & Dothard, 1438 South Penn Square; Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street; James Connor, 2248 Frankford avenue.

Church, Fifty-sixth street and Wyalusing avenue. \$25,000. Architect, George E. Savage, Witherspoon Building. Owner, Fifth United Presbyterian Church, care Rev. R. W. Burnside, 642 North Fifty-sixth street. Stone, 1 story, slate and slag roof (heating and electric work separate bids). Architect taking bids due June 15th. The following are figuring: William R. Dougherty, 1610 Sansom street; E. E. Hollenback, Fifteenth and Race streets; Thomas C. Trafford, 1613 Sansom street; Alexander Chambley, 243 South Tenth street; F. L. Hoover & Sons, 1023 Cherry street; A. Whitehead, Inc., 1624 Latimer street.

Office Building, Overington street and Frankford avenue. \$5,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Joseph F. McCartney, Forty-eighth street and Baltimore avenue. Brick, 2 stories, 20x68 feet, slag roof, steam heating, electric lighting. Owner taking sub-bids.

Convent and Rectory, Allegheny avenue and Edgemont street. Architect, Louis H. Giele, 1123 Broadway, New York City. Owner, St. Adalbert's R. C. Church, care of Rev. M. Monkiewize, 2645 East Allegheny avenue. Stone and brick, 4 stories, 41x62 feet and 34x63 feet, tin, slag and slate roof, steam heating, electric lighting, hardwood floors. Architect taking bids due June 11th. John McShain, 631 North Seventeenth street, is figuring.

Flat House, 1007-09 South Forty-sixth st. Architect, H. E. De Hoff, 48 South Sixty-first street. Owner, name withheld. Brick, 3 stories, slag roof, vapor vacuum heating, electric lighting, oak and composition floors, vacuum cleaning plant. Architect taking bids due June 12th. The following are figuring: Smith-Hardican Co., 1606 Cherry street.

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Maternity Ward, Penn and Chew streets, Germantown. Architect, Louis C. Baker, 34 South Seventeenth street. Owner, Germantown Dispensary and Hospital, Penn and Chew streets. Brick, 1 story, 37x155 feet. Architect ready for bids.

Manufacturing Building, Ninth street and Susquehanna avenue. \$80,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, J. Sullivan & Sons, 902 Montgomery avenue. Brick and concrete, 5 stories, 50x208 feet, slag roof, water proofing, metal lath, metal sash and frames (Architect taking separate bids on lighting and heating). Architect taking bids due June 17th. The following are figuring: A. Whitehead, Inc., 1624 Latimer street; James G. Doak & Co., Crozer Building; Irwin & Leighton, 126 North Twelfth street; F. A. Havens & Co., 845 North Nineteenth street; Charles McCaul Co., 1713 Sansom street; Cramp & Co., Denckla Building; F. W. Van Loon, Denckla Building; Turner Concrete Steel Co., 1713 Sansom street.

Garage (alt. and add.), Twentieth and Brandywine streets. Architect, P. M. Colen, 3133 Norris street. Owner, M. Boyle, 1528 Market street. Brick and concrete, 3 stories, 70x109 feet, slag roof, hot water heating, electric lighting, asphalt floors, metal lath, metal sash and frames, elevators. Architect taking revised bids due June 13th. H. E. Baton, Twelfth and Sansom streets; William R. Dougherty, 1610 Sansom street; A. R. Raff, 1635 Thompson street; Pomeroy Construction Co., 1069 Ranstead street; George & Borst, 277 South Eleventh street; F. A. Havens Co., James G. Doak & Co., Crozer Building, are figuring.

Hospital (alt.), Thirty-third street and Lancaster avenue. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Rush Hospital, on premises. Consists of alteration and addition to third and fourth floors, metal lath. Architect taking bids due June 11th. F. E. Wallace, 1210 Sansom street, is the only bidder.

Residence, Germantown. \$20,000. Architect, E. B. Gilchrist, 1424 Walnut street. Owner, W. M. C. Kimber, 545 Wister street, Germantown. Stone, 2½ stories, 65x80 feet, tile roof (heat and light reserved). Architect taking bids due June 13th. H. L. Brown, 1714 Sansom street; Pringle Borthwick, 8018 Germantown avenue; J. S. Cornell & Sons, Land

Title Building; J. E. Walt, 204 East Willow Grove avenue; Frederick Elvidge & Sons, 5522 Germantown avenue; Samuel Harting, 20 East Johnson street, are figuring.

Cottages (45), Kensington, Phila. Architect, John I. Bright, 1701 Chestnut street. Owner, Octavia Hill Association, 613 Lombard street. Brick, 2 stories, 15x40 feet, slag roof. Plans in progress.

Bachelor Apartments, Fifty-eighth street and Ashland avenue. Architects, H. E. De Hoff, 48 South Sixty-first street. Owner, W. B. Spittall, Stock Exchange Building. Brick, 3 stories, 41x92 feet, tile roof, vapor vacuum heating, electric lighting, hardwood floors. Owner taking sub-bids on all lines.

Restaurant (add.), 1510 Market street. Architects, Stuckert & Sloan, Crozer Building. Owner, Horn & Hardart Baking Co., 818 Chestnut street. Brick and terra cotta, 3 stories, slag roof, steam heating, electric lighting. Plans in progress.

Proposals

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Notice to Contractors.

Sealed proposals will be received by the Vineland School Board until Wednesday, June 24th, 1914, at 8 P. M., for the erection and completion of the new Vocational School Building, at that place.

All proposals shall be addressed to Vineland School Board, care of Edgar R. Jones, High School Building, Vineland, N. J.

Plans and specifications are on file and can be seen at the Architect's offices, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia, Pa.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Laboratory Building, Twenty-fourth and Norris streets. \$20,000. Architects, Koelle-Speth Co., Twenty-sixth and Oxford streets. Owners, Standard Dental Manufacturing Co., Twenty-fifth and Diamond streets. Brick, 2 stories, 20x24 feet, slag roof, steam heating, electric lighting. Contract awarded to Philip Haibach Construction Co., Twenty-sixth and Thompson streets.

Factory (alt. and add.), Van Kirk and Milnor streets. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Thomas Janney & Co., 315 North Third street. Brick, 2 stories, slag roof. Contract awarded to Irwin & Leighton, 126 North Twelfth street.

Convent (add.), Eighth and York streets. \$7,000. Architect, A. Dunlap, Twenty-sixth and Oxford streets. Owner, St. Edward's R. C. Church, on premises. Brick, 3 stories, 30x37 feet, slate roof, steam heating, electric lighting, metal frames and sash. Contract awarded to John McKenna & Sons, 1032 Race street.

Office Building, Overington street and Frankford avenue. Architect, Harry Zimmerman, 4957 Hawthorne street. Owner, Dr. Frank P. Embrey, No. 4662 Frankford avenue. Brick, 2 stories, 19x40 feet, slag roof, steam heating, electric lighting. Contract awarded to Thomas Duff, Schiller street and Kensington avenue.

Store, Fifty-sixth and Pemberton streets. \$35,000. Architect A. B. Gill, 1655 North Fifty-sixth street. Owner, W. Borton, 5224 Market street. Brick, 1 story, 78x125 feet, slag roof, electric lighting. Contract awarded to George Mink, 2207 Chestnut street.

Service Building, Richmond and Tioga sts. \$28,000. Architect, private plans. Owner, U. G. I. Co., Broad and Arch streets. Brick and concrete, 2 stories and basement, 40x110 feet, slate roof, blower system heating, water proofing, safety treads. Contract awarded to Charles Gilpin, Harrison Building.

Rectory, Twenty-eighth and Diamond sts. Architects, Ballinger & Perrot, 1211 Arch st. Owner, Most Precious Blood R. C. Church, care Rev. J. K. J. Kirlin. Brick, 3 stories, 42x50 feet, slate roof, steam heating, electric lighting. Contract awarded to W. J. McShane, 417 South Thirteenth street.

Church (alt. and add.), Oak Lane. \$25,000. Architects, Charles W. Bolton & Sons, Witherpoon Building. Owners, Presbyterian Church, Oak Lane. Stone, 1 story, slate roof, electric light, steam heat. Contract awarded to Thomas C. Trafford, 1613 Sansom street.

Building (alt. and add.), 824 Race street. \$6,000. Architect, C. E. Rahn, 410 Walnut street. Owner, B. Goldberg, 826 Race street. Brick, 4 stories, slag roof, steam heating, electric lighting, composition floors, metal sash and frames. Contract awarded to N. Litman, 2332 South Tenth street.

Manufacturing Building, Twenty-fourth and Chestnut streets. \$120,000. Architect, M. H. Dickinson, 1524 Chestnut street. Owner, J. J. Greenberg, Morris Building. Lease, National Enameling & Stamping Co., 222 N. Twenty-third street. Brick, steel and concrete, 3 stories, 60x200 feet, slag roof, steam heating, electric lighting, metal sash and frames, water proofing, elevators. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Dyeing Plant, Delaware River and Milnor street. Architect, Carl P. Berger, 1418 South Penn Square. Owner, Hellwig Silk Dyeing Co., Ninth and Buttonwood streets. Brick and concrete, dye house, 2 stories, 100x200 feet, power house, 1 story, 90x90 feet, slag roof, steam heating, electric lighting, water supply system, pumps, etc. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Hospital (add.), Frankford avenue and Palmer street. Architects, Ballinger & Perrot, 1211 Arch street. Owners, St. Mary's Hospital, on premises. Brick, stone and terra cotta, 5 stories, 170x268 feet, slag and tile roof (electric lighting, steam heating, central plan), water proofing, metal lath, metal doors and frames and sash, elevators. Contract awarded to Irwin & Leighton, 126 North Twelfth street.

Cottage (add.), Coulter street and Wissahickon avenue, Gtn. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, Germantown Friends School, on premises. Brick, 2 stories, 16x27 feet, slate roof, steam heat. Contract awarded to W. C. Wright, 22 Harvey street, Gtn.

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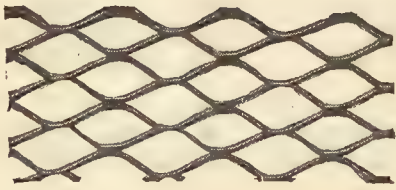
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Residences (7), Lancaster, Pa. \$22,000. Architect, H. M. Bartholomew, 39 East Grant No. 352 North Queen street, Lancaster, Pa. Brick, stone trimmings, 3 stories, 17x50 feet, tin roofs, hot water heating, gas and electric lighting, tile work. Plans in progress.

Residence, Lancaster, Pa. \$3,500. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Frank Shirk, 5 North Duke street, Lancaster, Pa. Brick, 2 1/2 stories, 25x60 feet, slate roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

Apartment House (alt. and add.), Lancaster, Pa. \$10,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, name withheld. Brick, 3 1/2 stories, 38x82 feet, slag roof, hot water heating, electric lighting, metal lath, gas ranges, dumb-waiter, tile work. Plans in progress.

Store Front, Lancaster, Pa. \$1,000. Architect, J. B. Harman, No. 56 North Duke street, Lancaster, Pa. Owner, name withheld. Consists of new bulk windows, etc., electric lighting, tile work. Plans in progress.

Bungalow, Lancaster, Pa. \$6,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, H. M. Madison, 638 West Chestnut street, Lancaster, Pa. Brick and frame, 1 1/2 stories, 48x37 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking sub-bids.

Residence, New Holland, Pa. \$10,000. Architect, J. B. Harman, 56 North Duke st., Lancaster, Pa. Owner, A. B. Groff, New Holland, Pa. Brick, limestone trimmings, 3 stories, 50x36 feet, asbestos shingle roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Owner is sub-letting all contracts.

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PENNSYLVANIA Construction News

Garage, Ardmore, Pa. Architects, Stout & Reibenack, Bartlett Building, Atlantic City, N. J. Owner, Dr. M. D. Youngman, Ardmore, Pa. Plaster, 1 story, 20x19 feet, slate roof, electric lighting, metal lath. Owner has received bids.

School, Bryn Mawr, Pa. \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick, granite and limestone trimmings, fireproof, 2 stories, 162x78 feet, inlaid slate and slag roofs (heating and electric work, separate bids), expanded metal lath, concrete floors, hollow tile, slate blackboards, structural steel, proposal bond. Owner taking bids due June 15th. The following are figuring: James H. Wells, Heed Building; Specht & Sperry, Heed Building; H. L. Brown, 1714 Sansom street; Thomas Little & Son, 1713 Moravian street; A. Whitehead, Inc., 1624 Latimer street; J. E. & A. L. Pennock, Land Title Building; A. Bottoms & Sons Co., 41 South Fifteenth street, all of Philadelphia.

Squash Court (add.), Cynwyd, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Philadelphia. Owner, The Cynwyd Club, Cynwyd, Pa. Hollow tile and plaster, 1 story, 20x40 feet, slag roof, steam heating. Architect has received bids.

Schools (2), Darby, Pa. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owners, Board of Education, care of W. E. Buchman, 1114 Main street, Darby, Pa. Brick and stone, 2 stories and basement, 24x79 feet and 30x70 feet, slate and slag roof (hot air, vapor vacuum heat and electric lighting, separate bids), safety treads, metal lath. Owners taking bids due June 18th. Plans may be obtained from the Architect upon deposit of \$20.

Church (add.), Wayne, Pa. Architects, Boyd, Coneys & Abel, Fifteenth and Walnut streets, Philadelphia. Owner, Radnor Presbyterian Church, Wayne, Pa. Stone and shingle, 1 story, 34x56 feet, shingle roof (heating and electric work, separate bids). Architects have received bids.

Residence (alt. and add.), Radnor, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Isaac H. Clothier, Jr., Radnor, Pa. Plaster and frame, 2 1/2 stories, slag and shingle roof, electric lighting, canvas roof. Architect taking bids due June 11th. Stacy Reeves & Sons, 2011 Market street, Philadelphia; J. D. Lengel, Wayne, Pa., and George L. Croll, Rosemont, Pa., are figuring.

Residence, St. David's, Pa. Architect, Oli-

ver R. Parry, 1727 Chestnut street, Philadelphia. Owner, Mrs. S. J. Buxton, St. David's, Pa. Hollow tile and plaster, 2 1/2 stories, 25x61 feet, shingle roof, steam heating, electric lighting, oak floors, canvas roof. Architect has received bids.

Residence and Garage, Villa Nova, Pa. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, Edgar B. Howard, Real Estate Trust Building, Philadelphia. Stone, brick and stucco, 2 1/2 stories, 125x35 feet, slate roof (heating undecided), electric lighting. Plans in progress. Architects will take bids in three or four weeks.

Garage (alt. and add.), Wayne, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, R. Francis Wood, Wayne, Pa. Stone and frame, 2 stories, shingle roof. Architects taking bids. Elfreth & Wood, 1708 Sansom street, are figuring (only bidder).

Residence, Chester, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, John J. McClure, Chester, Pa. Stone, 2 1/2 stories, 42x52 feet, slate roof, oak floors (heating and electric work reserved). Architects received bids June 9th.

Church, Chester, Pa. \$25,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Providence Avenue M. E. Church, Chester, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Plans about completed. Owner and Architect ready for bids.

Residence, Melrose Park, Pa. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Robert N. Whinney, care of F. D. Kramer & Sons, Seventeenth and Spring Garden streets, Philadelphia. Stone and plaster, 2 1/2 stories, 43x29 feet and 16x12 feet, tile roof, canvas roof, hot water heating, electric lighting, white oak floors, tile work. Architects have received bids.

School, Marion Heights, Pa. Architect, Clyde Adams, 1509 Arch street. Owner, Board of Education, Marion Heights, Pa. Brick, 2 stories and basement, 31x74 feet, tin and slag roof, electric lighting, metal lath (heating reserved). Owner taking bids due June 12th. Eugene Tourison, 1001 Chestnut street, is figuring.

Residence, Haverford, Pa. Architects, Martin & Kirkpatrick, 1001 Chestnut street, Philadelphia. Owner, Harry Edson, 431 Walnut street, Philadelphia. Hollow tile and plaster, 2 1/2 stories, 25x60 feet, shingle roof, electric lighting, hardwood floors. Plans in progress.

Garage, Cynwyd, Pa. Architect W. L. Blithe, 608 Chestnut street, Philadelphia. Owner,

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John S. Eberbach, Cynwyd, Pa. Stone, 2 stories, 32x30 feet, slate roof, hot water heating, electric lighting, gasoline storage. Revised plans in progress. Bids in ten days.

Residence, York, Pa. \$15,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, George L. Stallman, York, Pa. Brick, hollow tile and plaster, 2½ stories, slate roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Apartment House, Elkins Park, Pa. Architects, Borzner & Wood, 721 Walnut street, Philadelphia. Owner, name withheld. Hollow tile and plaster, 3 stories, 68x142 feet, tile roof, steam heating, electric lighting, oak floors. Architects received bids June 8th.

Power House (add.), Merion, Pa. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owner, Sisters of Mercy, Merion, Pa. Stone, 1 story, 12x30 feet, slag roof. Plans in progress.

Residence, Lancaster, Pa. \$3,500. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, Miss M. Corson, 240 North Water street, Lancaster, Pa. Brick, stone trimmings, 2½ stories, 30x35 feet, slag roof, hot water heating, electric lighting. Architect ready for bids.

Residence, Lancaster, Pa. \$5,500. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, O. H. Shenk, Ridgeway, Lancaster, Pa. Brick, 2½ stories, 30x35 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Plans about completed. Owner will take bids in a few days.

Residence, Lancaster, Pa. \$15,000. Architect, H. M. Bartholomew, 39 East Grant st., Lancaster, Pa. Owner, C. A. B. Zook, Hamilton Apartments, Lancaster, Pa. Frame and stucco, 2 stories, 36x80 feet, shingle roof, hot air heating, electric lighting, hardwood floors, tile work. Owner taking bids. Kreider & Rohrer, Lancaster, Pa., and Abe Herr, Eden, Pa., are figuring.

Residence, Rohrerstown, Pa. \$5,500. Architect, J. B. Harman, 56 North Dukes street, Lancaster, Pa. Owner, R. W. Roseboro, 209 Ruby street, Lancaster, Pa. Brick, 2½ stories, 36x36 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Architect taking bids. The following are figuring: R. Sheetz, East Petersburg, Pa., and Frank Bachman, Peter Wohlsen, L. B. Wright, all of Lancaster, Pa.

Hotel (alt. and add.), Lancaster, Pa. \$4,500. Architect, J. B. Harman, 56 North Dukes street, Lancaster, Pa. Owner, W. A. Buckius, 201 West Orange street, Lancaster, Pa. Brick, 1 story, 40x40 feet, slag roof, hot water heating, electric lighting. Architect taking bids. The following are figuring: L. V. Wright, Frank Bachman and Peter Wohlsen, all of Lancaster, Pa.

Residences (8), Lancaster, Pa. \$24,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, H. A. Mettfett, 201 East Clay street, Lancaster, Pa. Brick, stone trimmings, 3 stories, 17x50 feet each, slag roofs, hot water heating, gas and electric lighting, paper composition floors. Owner taking sub-bids.

Foundry and Warehouse, Marietta, Pa.

Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Marietta Hollow Ware Works, Marietta, Pa. Brick, 1 story, 50x150 feet and 112x120 feet, slag roof, steam heating, electric lighting. Owners are sub-letting all contracts.

Residence, Emaus, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, J. H. Frederick, Emaus, Pa. Hollow tile and stucco, 2½ stories, 28x45 feet, tile roof, hot water heating, gas and electric lighting, tile floors. Owner is sub-letting all contracts.

Residence, Bethlehem, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, Frank H. Heffelfinger, care of Freight Office, Central R. R. of N. J., Bethlehem, Pa. Brick, stone trimmings, 1½ stories, 40x40 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking bids.

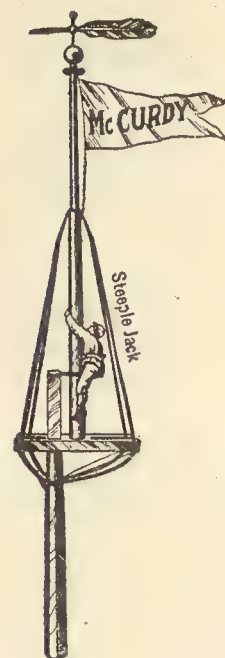
School Building, Eddystone, Pa. \$20,000. Architect, William E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, School Board, Eddystone, Pa. Brick, terra cotta trimmings, 2 stories, 75x85 feet. Plans in progress.

Service Building, Rosemont, Pa. Architects, Zantinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, George H. McFadden, 121 Chestnut street. Brick, 2 stories, 93x58 feet and 38x26 feet. Consists of service building, garage and cottage, slate roof, hot water heating, electric lighting, metal lath, tile work, reinforced concrete floors. Architects taking bids due June 13th. The following are figuring: Graham-Campion Co., Heed Building; F. E. Wallace, 1210 Sansom street; J. S. Cornell & Son, Land Title Building; William H. Eddleman & Son, 453 Green lane, Roxborough, all of Philadelphia; J. D. Lengel, Wayne, Pa.

School, White's Ferry, Pa. Architects, Balingier & Perrot, 1211 Arch street, Philadelphia. Owners, Industrial School for Boys, care of Rev. M. J. Hoban, Scranton, Pa. Brick and stone, fireproof, 3 stories and basement, 153x194 feet, slate and slag roof (haeting and lighting reserved), damp proofing, metal lath, safety treads, rolled steel partitions, kalamein doors. Architects taking bids due June 12th. (Note change.) Lathrope, Shea & Henwood Co., Scranton, Pa., are figuring, in addition to those previously reported.

Residence, Bryn Mawr, Pa. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, J. Henry Longmaid, Moorestown, N. J. Stone and frame, 2½ stories. Details undecided. Plans in progress.

School, Sixth and Walnut streets, Darby, Pa. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, School Board, William E. Buckman, Secretary, Darby, Pa. Stone and terra cotta trimmings, 2 stories, 91x65 feet, Emack's slate roof, reinforced concrete and hollow tile, fireproofing, safety treads, metal lath (heating and electric work separate bids, blackboard reserved. Owners taking bids due June 18th, 8 P. M. The Following are figuring: Henry L. Brown, 1714 Sansom street; P. J. Hurley, 1233 Cherry street; W. W. Anstine & Co., 1218 Filbert street; Berry-Goodwin Co., Drexel Building; F. T. Mercer



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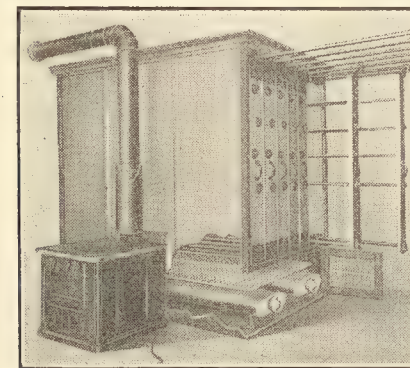
Bell, Filbert 23-13.
Keystone, Race 60-17A

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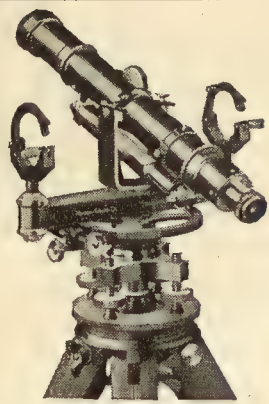
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Office and Work Rooms Philadelphia
2016-18-20 Ranstead Street Pa.

Co., 1706 Delancey street; F. Roe Searing, Perry Building; George F. Pawling & Co., Broad and Vine streets, all of Philadelphia.

School, Tenth street and Ridge avenue, Darby, Pa. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, School Board,



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PHILADELPHIA

William E. Buckman, Secretary, Darby, Pa. Sayre & Fisher brick and terra cotta trimmings, 2 stories, 40x62 feet, slag roof, concrete and hollow tile fireproofing, safety treads, metal lath (heating and electric work separate bids), blackboards reserved. Owners taking bids due June 18th, 8 P. M. The following are figuring: H. L. Brown, 1714 Sansom street; P. J. Hurley, 1233 Cherry street; W. W. Anstine & Co., 1218 Filbert street; Berry-Goodwin Co., Drexel Building; F. T. Mercer Co., 1706 Delancey street; F. Roe Searing, Perry Building; George F. Pawling

& Co., Broad and Vine streets, all of Philadelphia.

School, Leesport, Pa. Architect, Calvin J. Young, Reading, Pa. Owner, Board of Education, Leesport, Pa. Brick, 2 stories, 51x88 feet, slag roof, hot air heating, electric lighting. Owners taking bids due June 13th. Wilbert eBaumont, Stephen Girard Building, Philadelphia, is figuring.

Residences (20), Chester, Pa. Architect, H. M. Pedricks, Darby, Pa. Owner, J. G. Boudart, 817 Edgmont street, Chester, Pa. Brick, 2 stories, 15x30 feet, slag roof. Plans in progress.

PENNSYLVANIA

Contracts Awarded

Apartments (alt. and add.), Lancaster, Pa. \$7,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, J. S. Metzger, 563 West Orange street, Lancaster, Pa. Brick, 5 stories, 32x36 feet, slag roof, hot water heating, gas and electric lighting, dumb-waiters. Contract awarded to L. V. Wright, 144 East Vine street, Lancaster, Pa.

Apartment House, Lancaster, Pa. \$50,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, S. R. Slaymaker, 214 East King street, Lancaster, Pa. Brick and terra cotta, 3 stories, 155x50 feet, slag roof, vapor heating, electric lighting, hardwood and composition floors, tile work, safety treads, vacuum cleaners, gas ranges, metal weather strips. Contract awarded to Samuel H. Bally, 514 South Shippen street, Lancaster, Pa.

Store (alt.), Lancaster, Pa. \$5,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, S. R. Slaymaker, 214 East King street, Lancaster, Pa. Brick, 3 stories, 35x160 feet, steam heating, gas and electric lighting, bulk windows. Contract awarded to Samuel H. Bally, 514 Shippen street, Lancaster, Pa.

Residences (6), Lancaster, Pa. \$19,400. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Bowman & Kendig, Lancaster, Pa. Brick, stone trimmings, 3 stories, 17x52 feet each, slag roof, hot water heating, gas and electric lighting. Contract awarded to I. Witmer, Lancaster, Pa.

Residence and Store, Lancaster, Pa. \$4,000. Architect, Melvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, John

Reinhold, 648 East Walnut street, Lancaster, Pa. Brick, 3 stories, 22x74 feet, slag roof, hot water heating, gas and electric lighting. Contract awarded to William Barton, Lancaster, Pa.

Cottage, Elizabethtown, Pa. Architects, Zantinger, Borie & Medary, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, Grand Lodge, F. and A. M., Broad and Arch streets. Stone, 3 stories, 80x100 feet, slate roof, hot water heating, electric lighting, metal sash and frames, metal lath, damp proofing (heating and lighting, reserved). Contract awarded to Pomeroy Construction Co., 1609 Ranstead street, Philadelphia.

Farm Building (alt. and add.), Broomall, Pa. Architects, Savery, Scheetz & Avery, Stephen Girard Building, Philadelphia. Owner, Norman Cantrell, on premises. Stone and plaster, 2 stories, shingle roof (heat and light, reserved). Contract awarded to W. H. Roberts, Llanerch, Pa.

Mining Building, State College. \$50,000. Architects, Day & Klauder, 925 Chestnut st., Philadelphia. Owner, Pennsylvania State College, State College, Pa. Brick and stone, 3 stories, 76x135 feet, slate roof (heat and light, reserved), water proofing, metal lath, metal frames and sash. Contract awarded to H. L. Brown, 1714 Sansom street, Philadelphia.

Garage and Greenhouse, Ft. Washington, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, G. C. Kuemmerle, Ft. Washington, Pa. Bricks 1 story, 24x32 feet, slate roof, electric lighting. Contract awarded to E. James, Ft. Washington, Pa.

fire proofing, electric lighting, blower system of heating. Owners taking bids due June 24th, 8 P. M. The following are figuring: Charles McCaul Co., 1713 Sansom street; Metzger & Fisher, Denckla Building; H. E. Baton, Twelfth and Sansom streets; Roydhouse-Arey & Co., Fidelity Building; John W. Emery, 1524 Sansom street; H. L. Brown 1714 Sansom street; J. E. & A. L. Pennock, Land Title Building, all of Philadelphia; James Pasquale, Vineland, N. J., and Charles M. Schaible, Vineland, N. J.

Residence, Camden, N. J. \$4,000. Architect, Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Frank C. Steiner, 316 Market street, Camden, N. J. Brick, 3 stories, 17x53 feet, slag roof, steam heating, gas and electric lighting, hardwood floors. Plans in progress. Architect will take bids in one week.

Residence, Bridgeton, N. J. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owners, name withheld. Hollow tile and stucco, 2½ stories, 50x40 feet, tile or slate roof, vacuum heating, gas and electric lighting, hardwood floors, tile work. Plans in progress. Architects will take bids in one week.

Residence, Bridgeton, N. J. \$3,500. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owners, name withheld. Hollow tile and stucco, 2 stories, 28x30 feet, shingle roof, hot air heating, gas and electric lighting. Plans in progress.

Twin Residence, Stone Harbor, N. J. \$4,000. Architects, Custer & Seltzer, 302 Market st., Camden, N. J. Owner, W. S. Dilks, 919 Real Estate Trust Building, Philadelphia. Frame and plaster, 2 stories, 36x33 feet, shingle roof, hot air heating, electric lighting. Plans in progress. Owner will take bids in one week.

School Building, Almonesson, N. J. \$7,000. Architects, Harry Parker & Street & Stackhouse, Drexel Building, Philadelphia. Owner, Almonesson School Board. Brick, 1 story (2 rooms), slate roof, hot air heating, water supply system. Owners taking bids due June 19th. D. E. Boyer & Co., 523½ Arch street, Camden, N. J., and W. Titus, Paulsboro, N. J., are figuring.

School, North Woodbury, N. J. \$6,000. Architects, Harry Parker and Street & Stackhouse, Drexel Bldg., Phila. Owner, School Board of Deptford Township, N. J. Concrete blocks, 1 story, shingle roof, hot air heating. Plans in progress.

School, Gouldtown, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Fairfield Township Board of Education, care of A. H. Westcott, District Clerk, Fairton, N. J. Frame, 1 story, 79x33 feet, shingle roof, slate blackboards (hoisting separate bids). Owners taking bids due June 10th, 8 P. M. The following are figuring: W. Beaumont, Stephen Girard Building, Philadelphia; J. B. Mulford, Fairton, N. J.; Bateman & Miller, Grosseup & Sons, George Maier & Bro., H. H. Hankins, all of Bridgeton, N. J.; Peterson Construction Co., Clayton, N. J.; Charles O. Stewart, Camden, N. J.

Residence (alt. and add.), Riverton, N. J. Architect, C. R. Peddle, 136 South Fourth st., Philadelphia. Owner, Stanley Groves, Riverton, N. J. Frame, 3 stories, slate roof, Warren-Webster system heating, electric lighting, hardwood floors. Architect has received bids.

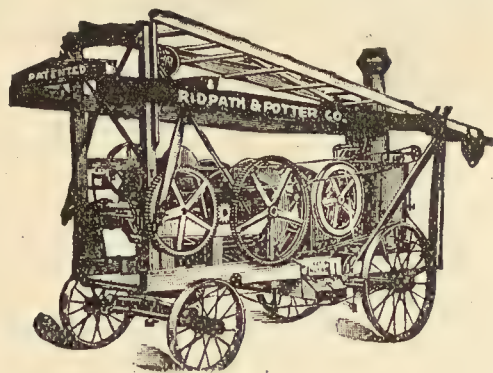
Church, Perth Amboy, N. J. \$100,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owner, St. Stephen's R. C. Church, care of Rev. Joseph Urban, Perth Amboy. Stone, 1 story, 70x151 feet, slate and slag roof, metal lath, (heating and lighting reserved). Architects taking bids due June 10th. The following are figuring: Melody & Keating, Bailey Building; William R. Dougherty, 1610 Sansom street; M. L. Conneen & Co., 2015 Cuthbert street; J. Myers & Sons Co., Witherspoon Building; John McShain, 631 North Seventeenth street; Monaghan & Losse, 218 South Twelfth street; Wil-

NEW JERSEY

Construction News

School Building, Vineland, N. J. \$60,000. Architects, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Board of Education, care of Edgar R. Jones, Decker Block,

Vineland, N. J. Brick, terra cotta and limestone, 2 stories, and tin roof, enameled bricks, damp proofing, metal lath, slate blackboards and structural slate, concrete and hollow tile



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liam J. McShane, 417 South Thirteenth street; H. E. Baton, Twelfth and Sansom streets, all of Philadelphia; J. N. Wester, Rapid Building & Construction Co.; J. R. Crouse, Herman Frederick, all of Perth Amboy, N. J.; D. Mitchell, 306 West Fifty-third street, New York City.

Residence, Trenton, N. J. \$14,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Walter F. Smith, 203 East State street, Trenton, N. J. Brick, stone trimmings, 2½ stories, 42x42 feet, slate roof, vapor vacuum heating, gas and electric lighting, hardwood floors, tile work, dumb-waiter, vacuum cleaning plant, metal lath. Plans in progress.

Garage, Trenton, N. J. \$12,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Petry Express & Storage Co., 320 East State street, Trenton, N. J. Brick, 2 stories, 75x116 feet, slag roof, steam heating, concrete floors, electric lighting, elevator. Revised plans in progress. Architects will take bids in a few days.

Residences (alt. and add) (2), 510 South Warren street, Trenton, N. J. Architect, W. B. Thines, 326 West State street, Trenton, N. J. Owner, Samuel Rosen, on premises. Brick, 2½ stories, 27x50 feet, slate and tin roofs, hot air heating, gas lighting. Plans about completed. Architect will take bids in a few days.

Residences (7), Trenton, N. J. \$14,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, Herman Salb, 550 Lamberton street, Trenton, N. J. Brick, 3 stories, 14x48 feet, slate and slag roof, hot air heating, gas and electric lighting. Owner is taking bids.

Church and School, Sayreville, N. J., \$20,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, St. Stanislaus R. C. Church, Rev. John J. Powsoowski, Sayreville, N. J. Brick, 2½

stories, 51x100 feet, slate roof, steam heating, electric lighting. Owners taking bids.

Residence, Trenton, N. J. \$8,000. Architects, W. W. Black & Son, American Mechanics' Building, Trenton, N. J. Owner, W. W. Slack, Trenton, N. J. Brick, stone trimmings, 2½ stories, 28x48 feet, slate roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Architects taking bids. Burton & Burton, American Mechanics' Building, Trenton, N. J., and Ed. Le Rue, 53 South Hermitage street, Trenton, N. J., are figuring.

Home, Trenton, N. J. \$40,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, City of Trenton, Home for Aged. Brick, stone trimmings, 2 stories, 40x87 feet, 2 wings, 28x116 feet each, slate roof, steam heating, electric light, metal lath. Architects, L. Levy & Sons, S. W. Mather & Sons, Burton & Burton, W. J. & J. H. Morris, E. H. Stout, all of Trenton, N. J., and F. W. Van Loon, Denckla Building, Philadelphia.

School, Roebling, N. J. \$75,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Board of Education of Florence Township. Brick and concrete, 2½ stories, 78x165 feet, slag roof, steam or warm air heating, electric lighting, metal doors and trimmings, safety treads, damp proofing, metal lath. Owners taking bids due June 11th, 8 P. M. The following are figuring: F. W. Van Loon, Denckla Building; Berry-Goodwin Co., Drexel Building, Philadelphia; J. S. Rogers Co., Moorestown, N. J.; R. H. Carty, Hedding, N. J., and S. W. Mather & Son, American Mechanics' Building, W. J. & J. H. Morris, Broad Street Bank Building, David Tietz & Son, 16 Union street; Daniel A. Dugan, 404 Greenwood avenue; L. Levy & Son, 320 Centre street; I. Harper Clayton, American Mechanics' Building; Burton & Burton, American Mechanics' Building, all of Trenton, N. J.

NEW JERSEY

Contracts Awarded

Residence, Mt. Holly, N. J., Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, James Logan, Mt. Holly, N. J. Stone and frame, 2½ stories, 26x30 feet, shingle roof, steam heating, electric lighting. Contract awarded to Hiram Esham, Mt. Holly, N. J.

School (add.), Westtown, N. J. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Westtown Boarding School, Westtown, N. J. Brick, 2 stories, 25x26 feet, slag roof, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Manufacturing Building (add.), Trenton, N. J. \$75,000. Architect, private plans. Owners, American Steel & Wire Co., Trenton, N. J. Brick, steel and concrete, 3 stories, 72x171 feet, slag roof, steel rolling doors, steel sash and frames. Contract awarded to F. W.

Van Loon, Denckla Building, Philadelphia.

Residence, Bridgeton, N. J. \$8,000. Architects, Custer & Seltzer, 320 302 Market street, Camden, N. J. Owner, Howard J. Jerrell, Bridgeton, N. J. Frame, 2½ stories, 40x36 feet, gas and electric lighting (roofing and heating reserved). Contract awarded to Grosseup & Sons, Bridgeton, N. J.

Hospital, Millville, N. J. \$15,378. Architects, Guy King & Co., 1513 Walnut streets, Philadelphia. Owner, Millville Hospital, Millville, N. J. Brick, hollow tile and stucco, electric lighting, Webster system of heating (screens, weather strips, dumb-waiter and elevator, garbage incinerator, vacuum cleaning plant reserved). Contract awarded to W. A. Richman, Moorestown, N. J.

Cottages (3), Skillman, N. J. \$107,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey,

State Village for Epileptics. Brick, 1½ stories, slate and slag roof, steam heating, electric lighting, composition floors, metal lath. Contract for three non-fireproof cottages awarded to Edward Fay & Son, 2 South Mole street, Philadelphia.

Lodge Building, Trenton, N. J. \$70,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Loyal Order of Moose, Trenton, N. J. Brick, stone and terra cotta, 4½ stories, 81x137 feet, slag roof, gas and electric lighting, hardwood and composition floors, metal lath (heating reserved). Contract awarded to Burton & Burton, American Mechanics' Building, Trenton, N. J.

Stable, Trenton, N. J., \$10,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Petry Express & Storage Co., 320 East State street, Trenton, N. J. Brick, 2½ stories, 50x90 feet, slag roof, electric lighting, concrete floors. S. W. Mather & Sons, American Mechanics' Building, Trenton, N. J., submitted the lowest bid.

Miscellaneous Construction News

Residences (3), Greenwich, Conn. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, E. M. Barlow, 104 East Twenty-fifth street, New York City. Hollow tile and plaster, 3 stories, 80x44 feet and 82x52 feet, tile roofs, hot water heating, gas and electric lighting, hardwood floors, tile work, metal weather strips. Owner ready for bids.

Residence, Greenwich, Conn. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, Clinton W. Barlow, 104 East Twenty-fifth street, New York City. Hollow tile and plaster, 3 stories, 86x46 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal weather strips. Owner ready for bids.

W. Y. C. A., Salisbury, Md. Architect, C. N. Fritz, Baltimore, Md. Owner, Mrs. E. E. Jackson, Salisbury, Md. Brick and terra cotta, 3 stories, 45x87 feet, slag roof, (heating and lighting reserved). Architect has received bids.

Residence, Wilmington, Del. \$12,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Louis Halle, 1207 Clayton street, Wilmington, Del. Stone, 2½ stories, 40x43 feet, shingle roof, gas and electric light, heating undecided, hardwood floors, tile work, metal lath. Plans in progress.

Garage (alt. and add.), Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Overland Garage, Wilmington, Del. Brick and concrete, 1 story, 21x50 feet, slag roof, electric lighting, concrete floors. Plans in progress.

Residence, Townsend, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Dr. Jerome D. Niles, Townsend, Del. Stone and frame, 2½ stories. Plans in progress.

Picture Theatre, Wilmington, Del. \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 1000 French street, Wilmington, Del. Brick, stone trimmings, 2 stories, 37x125 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath. Plans in progress.

Immigration Building, Boston, Mass. Architect, Oscar Wenderoth, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and concrete, 4 stories, 160x210 feet, slag and tile roof (heating and lighting reserved), water proofing, metal lath, rolling steel doors, steel sash and frames, metal doors and frames, composition floors. Owners taking bids due June 25th. The following are figuring: J. E. & A. L. Pennock,

Land Title Building; Charles McCaul Co., 1713 Sansom street; J. W. Emery, 1524 Sansom street, all of Philadelphia.

Bungalow, Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Mrs. John Mitchell, Wilmington, Del. Brick, 1½ stories, 32x55 feet, asbestos shingle roof, hot air heating, gas and electric lighting, hardwood floors, tile work. Architect taking bids. The following are figuring: Charles J. Dougherty, 1509 Lincoln street; J. F. Owens & Sons, 1103 West Fourth street; Harry Reid, all of Wilmington, Del.

High School, Hamilton, O. Architects, F. L. Packard, Columbus, O., Frederick G. Mueller, Hamilton, O. Owner, Board of Education, Charles F. Holdefer, Clerk, Hamilton. Brick, limestone or terra cotta trimmings, 3 stories, 125x244 feet, composition roof, steam blast system of heating, electric lighting, concrete floors, safety treads, damp proofing and water proofing, metal lath, structural slate and blackboards, vacuum cleaning plant.

Owners taking bids due June 29th. James H. Wells, Heed Building, is figuring.

Science and Agricultural Building, Bowling Green, O. Architects, Howard & Merriam, 8 East Broad street, Columbus, O. Owner, Bowling Green State Normal College, D. C. Brown, Secretary, Napoleon, O. Brick, limestone trimmings, 3 stories, 143x73 feet, asbestos composition roof, electric lighting, damp proofing, metal lath, concrete and hollow tile fireproofing, structural slate and blackboards (heating reserved). Owner taking bids due June 12th. James H. Wells, Heed Building, is figuring.

Residence (alt.), Wilmington, Del. Architects, E. L. Rice, Jr., & Co., 815 Market street, Wilmington, Del. Owned, C. Victor H. Bacon, 825 Market street, Wilmington, Del. Stone and brick, 3 stories, 60x20 feet. Carey's roof, hot water heating, gas and electric lighting, hardwood floors. Contract awarded to A. S. Reed & Bro. Co., 815 Shipley street, Wilmington, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

David Pievsky (O), 8412 Eastwick avenue. Cost, \$3,600. Two dwellings, brick, 2 stories, 14x38 feet, Eighty-fourth and Botanic streets.

W. H. Calussen (O), 2024 East Cheltenham avenue. Cost, \$8,000. Two dwellings, brick, 3 stories, 16x48 feet. Thirteenth street and Sixty-fifth avenue.

W. H. Ashton (O), 5618 North Second street. Cost, \$5,600. Two dwellings, brick, 2 stories, 16x48 feet. Fifth street and Lindley avenue.

Walter Borton (O), 5224 Market street. George Mink (C), 2207 Chestnut street. Cost, \$35,000. Store, brick, 1 story, 78x123 feet, Fifty-sixth and Pemberton streets.

E. M. Lyedsby (O), 1823 East Somerset street. A. S. Brown (C), 1901 East Clearfield street. Cost, \$2,100. Dwelling, brick, 2 stories, 14x40 feet. Benner and Tulip streets.

Joseph Cohen (O), Thirteenth and Ellsworth streets. Samuel Levin (C), 1933 South Sixth street. Cost, \$3,000. Dwelling, brick, 3 stories, 15x44 feet, Seventh and Cantrell streets.

F. T. Buckius, Jr., 4510 Frankford avenue. Cost, \$1,700. Dwelling, brick, 2 stories, 15x66 feet. Duncan and Cambridge streets. Cost, \$7,000. Five dwellings.

J. W. Whalen (O), 322 Witherspoon Building. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x38 feet, Church lane and Stenton avenues. Cost, \$14,000. Seven dwellings. Cost, \$8,000. Four dwellings. Cost, \$12,000. Six dwellings.

I. P. McDonald (O), 5929 Girard avenue. D. H. Sharp Co. (C), Heed Building. Cost, \$4,500. Store and dwelling, brick, 2 stories, 22x65 feet, 5929 Girard avenue.

George W. Shissler (O), 2300 South Eleventh street. Cost, \$31,200. Twenty-six dwellings, brick, 2 stories, 14x25 feet, 2603 South Alden street. Cost, \$1,500. Store and dwelling. Cost, \$27,600. Twenty-three dwellings. Cost, \$1,800. Store and dwelling. Cost, \$1,500. Store and dwelling. Cost, \$1,600. Dwelling.

Mrs. Winterch (O), 2647 Kensington avenue. P. E. Bertrand Co. (C), 717 Walnut street. Cost, \$3,500. Store and dwelling, brick, 3 stories, 13x30 feet, 2647 Kensington avenue.

G. W. Davies (O), Ridge avenue and Wizard street. E. L. Cuthbertson (C), 334 Roxborough avenue. Cost, \$10,000. Warehouse,

brick, 3 stories, 108x62 feet, Ridge avenue and Wizard street.

Wolf & Fogel (O), 702 South Fourth street. L. Rosenberg (C), 716 Morris Building. Cost, \$2,900. Store and dwelling, 3 stories, 20x34 feet, 528 Bainbridge street.

Lewis Ahlers, Jr. (O), 4422 Salmon street. Cost, \$6,400. Four dwelling, brick, 2 stories, 14x42 feet, 4918 Stiles street.

C. Dear (O), 4905 Old York road. Cost, \$9,000. Six dwellings, brick, 2 stories, 14x28 feet, Northeast Boulevard.

W. Brady (O), Torresdale, Pa. C. Gercke (C), 7101 Torresdale avenue. Cost, \$3,500. One dwelling, brick, 2 stories, 16x60 feet, Torresdale, Pa.

J. J. McCloskey (O), Margaret street. Cost, \$1,400. One dwelling, brick, 2 stories, 14x36 feet, 4648 Trenton avenue.

A. Goldberg (O), 826 Reed street. N. Litman (C), 2332 South Tenth street. Cost, \$6,000. Store, brick, 4 stories, 20x18 feet, 824 Race street.

J. J. McCartney (O), 4804 Baltimore avenue. Cost, \$8,000. Four dwellings, brick, 2 stories, 16x30 feet, Overington and Franklin streets.

Joseph F. McCartney (O), Forty-eighth street and Baltimore avenue. Cost, \$5,000. Office building, brick, 2 stories, 20x68 feet, Frankford, Philadelphia.

J. R. Foster & Sons (O), Second and Lippincott streets. James G. Doak & Co., Crozier Building. Cost, \$300,000. Factory, brick, 5 stories, 83x57 feet, Second and Lippincott streets.

P. Sternberg (O), 309 Pine street. P. Savor (C), 718 Snyder avenue. Cost, \$14,800. Four dwellings and stores, brick, 3 stories, 15x30 feet, 609 to 15 Passyunk avenue.

E. H. Sturts (O), 2614 Ridge avenue. Cost, \$6,000. One dwelling, brick, 2 stories, 53x26 feet, Thirteenth street and Wyoming avenue.

J. Harming (O), 2410 Allegheny avenue. J. G. Miller (C), 2315 West Clearfield street. Cost, \$20,250. Fifteen dwellings, brick, 2 stories, 14x30 feet, Hemberger and Clearfield streets.

J. W. Mitchell (O), Forty-sixth and Market streets. Cost, \$3,500. One dwelling, brick, 2 story, 16x54 feet, Cedar and Yernall streets. Cost, \$7,000. Two dwellings. Cost, \$4,000. Store and residence. Cost, \$18,000. Six dwellings. Cost, \$18,000. Six dwellings.

George F. Heath (O), Eighty-seventh street

and Bartram avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 17x46 feet, Eighty-sixth street and Tinicum avenue.

J. Harming (O), 2410 Allegheny avenue. J. G. Miller (C), 2315 Clearfield street. Cost, \$1,500. Dwelling, brick, two stories, 14x37 feet, Clearfield and Hamberger streets.

C. M. Swartley (O), 6835 Ridge avenue. Cost, \$5,600. Two dwellings, brick, 3 stories, 16x36 feet, 6815-17 Ridge avenue.

Charles Johnson (O), 5701 Boyer street. Cost, \$1,800. Store and dwelling, brick, 2 stories, 14x47 feet, 6065 Stenton avenue.

S. J. Christy (O), Roxborough. Evan Brooke (C), Plymouth Meeting. Cost, \$2,000. Dwelling, brick, 3 stories, 25x30 feet, Roxborough, Philadelphia.

C. H. Anthony (O), Eleventh street and Cheltenham avenue. S. G. Humphreys (C), 609 Cherry street. Cost, \$8,000. One dwelling, brick, 3 stories, 38x32 feet, Eleventh street and Medary avenue.

Martin & W. H. Nixon Paper Co. (O), Manayunk, Philadelphia. Barclay White Co. (C), Perry Building. Cost, \$4,000. Factory, brick, 1 story, 116x200 feet, Manayunk, Philadelphia.

J. M. Faust (O), 4611 North Broad street. Cost, \$18,000. Six dwellings, brick, 2 stories, 16x46 feet, 5324 North Camac street.

Alterations and Additions

C. R. Hartranft (O), 3407 Germantown avenue. J. Y. Loux (C), 1121 Rising Sun lane. Cost, \$1,000. Office, 3407 Germantown avenue.

Mr. A. P. De Shan (O), Sixty-ninth and Eleventh avenues, Oak Lane. Alexander Chambley (C), 243 South Tenth street. Cost, \$1,500. Residence, Oak Lane.

Joseph Straubmiller & Son (O), Trenton and Boston avenues. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$1,500. Shed, Boston and Trenton avenues.

F. Fethersten (O), Knox and Queen streets. I. A. Dunkelberger (C), 71 Herman street. Cost, \$4,800. Dwelling, Knox and Queen streets.

H. G. Young (O), 940 South Forty-ninth street. F. B. Davis (C), 240 North Sixteenth street. Cost, \$1,300. Dwelling, 940 South Forty-ninth street.

Mrs. F. W. Bosse (O), 1544 Wallace street. S. J. Rea & Son (C), 1608 Fairmount avenue. Cost, \$1,450. Dwelling, 1544 Wallace street.

St. Clement's Church (O), Twentieth and Cherry streets.

Hess Bright Manufacturing Co. (O), Front street and Erie avenue. Cost, \$1,200. Storage, Front street and Erie avenue.

Keystone Emery Mills (O), Paul street, Frankford. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$7,000. Factory, Paul street, Frankford, Philadelphia.

Pennsylvania Salt Manufacturing Co. (O), Delaware avenue and Shunk street. Cost, \$2,000. Manufacturing building.

Walter Herzberg (O), Ridge avenue and Vine street. Lam Building Co. (C). Cost, \$3,800. Store, 902 Vine street.

Women's Homoeopathic Hospital (O), Twentieth street and Susquehanna avenue. F. L. Hoover & Sons (C), 1023 Cherry street. Cost, \$2,250. Hospital, Twentieth street and Susquehanna avenue.

Wayne Ice Co. (O), 4166 Wayne avenue. B. Franklin aHrt Co. (C), New York City. Cost, \$800. Manufacturing Building. Cost, \$1,000. Manufacturing, \$1,000. Manufacturing building.

Individual Milk Dealers (O), 2019 Leithgow street. R. McGlathery (C), 2306 North Twenty-fifth street. Cost, \$1,000. Milk Depot, 2019 Leithgow street.

THE BEAUTY OF THE SKYSCRAPER

A New European View of Our Architecture

By TWELLS BREX, London "Daily Telegraph"

One assumes that the chief objection to the skyscraper is not so much against itself as against its incongruity with lowlier neighbors. Perhaps any skyscraper—unless it be such an inspiration as New York's Woolworth Tower—is unlovely if it stands alone in an undergrowth of five-story buildings. But when an old building comes down on the priceless space of Lower Manhattan a mammoth building goes up as a matter of course. The steel and stone giants are no longer nakedly alone. They cluster in kingly groups and line whole streets like nalls of the Nibelungs. No one who has seen them—like a serrated coast itself—from his approaching Atlantic liner, wandered under their amazing walls, or traveled by a lift to their aerial summits will call this hyperbolic.

No single unit of man's audacity and skill, the leviathan ship, the Nile dam, the Simplon tunnel, is more triumphantly self-complete and self-justified than that beautiful Woolworth Tower, with its flying buttresses, its gilt-touched roof, its spire of crocketed gold, its white uplift by day, and its sky beacon by night. It captures your imagination when you see it from afar, it draws you again and again while you remain. It is your abiding memory and symbol of New York.

The Woolworth Tower has been likened to a commercial cathedral. I see no irreverence in the comparison, nor any reason—apart from the sheer exigency of having to soar from space—why New York should not exalt, embellish, and worship these arks of the energy, spirit, and rivalry that have made her what she is. Just as Cologne raised of old her then incredible spire to the new impetus of spiritualism, New York has raised this monument to the new world impetus of human efficiency.

The conception of a New York skyscraper is often of a stark rectangular rearing up in unbroken lines, almost showing its geometrical steel ribs under a lean flesh of unrelieved stone. There are enough of such buildings in New York, but they were only the raw beginnings out of which have been evolved the Metropolitan Tower, the astounding massivity of the Plaza Hotel, the giant horseshoe of the new civic buildings, the Bankers' Trust Building with its air-borne pilasters and pyramidal roof, the Candler Building, rocketing above Times Square at night in lines and cornices of fire, the cloud-aspiring Singer Building, and—last of all, until the next daring—this Woolworth Tower, the highest inhabited building in the world, seven hundred and eighty feet in all, whose summit I have known literally hidden in October storm-scud.

And they are towns in themselves, these New York office buildings, housing two, five, and ten thousand people under one roof. Their

vast height is often based on a whole city block. They have within them the organization of a municipality, their own electric light, water, and power plants, and a fire-fighting equipment that is almost supererogation, because they are as nearly fireproof as the wit of man can devise. In the whole of the Woolworth Building there is no woodwork. The doors and partitions are of steel, terra cotta, and wire glass. The frame of the building is a gigantic and homogeneous steel cage, the beautiful walls and ornaments are laid on as a skin. Beams and ceiling arches are of steel, floors are concrete, stairways are stone or metal. The fiercest blizzard of New York's harsh winter would not shake the skyscraper by a tremor, for it has been built to withstand the impossible pressure of a wind of two hundred and fifty miles an hour.

Whatever you may think of their external artistry you cannot fail to be conquered by the internal complexity, efficiency and completeness of these commercial palaces of New York. It has been truly vaunted that a tenant need not go from under his roof for almost any civilized want. He has, of course, the enviably competent telephone service of New York, and he can mail his letters in a chute on his floor. He has a post and telegraph office, a restaurant, a bank, an insurance office, a safe deposit, and even his own uniformed police. He can visit his physician, lawyer, broker, tailor, tobacconist, barber, and shoeblack. He can buy papers, books, stationery, theater tickets, hosiery, hats, fruit, flowers, and candies without passing his main entrance.

Some of these vast buildings are open day and night, the cost of maintenance alone reaching £20,000 a year, and the one item of water supply £1,000. The Woolworth Building has 40 acres of floor space, 3,000 exterior windows, 80,000 electric lights, and 28 lifts. Twenty-four thousand tons of steel went into the construction, 17,000,000 bricks, 87 miles of electric wiring, and 43 miles of piping.

These are but figures, and no figures can so touch the imagination as an ascent to the top of New York's latest and greatest skyscraper. It is infinitely more suggestive than the ascent of the slightly higher Eiffel Tower. The Parisian wonder is an engineering curiosity, a mighty skeleton reared for the sight-seer, tenantless except by tourists and meteorologists. This tower of New York holds thousands of citizens who pass their work-a-day hours in all its fifty-five stories—people who sit at their desks and unheed by familiarity the most astonishing city view of the world. The stranger pays fifty cents and steps into the express elevator. Nothing here of the tedium and change of lifts of the Eiffel Tower; the flash to the summit takes exactly one minute. It is one of the cheapest and most

exhilarating two shillingsworth imaginable. The fifty-five floors fall past you like cards dropping from the hand of a juggler, streaks of alternate light and shade.

And the view from the high-borne eyrie—all the amazing city—the encompassing rivers—the busiest harbor in the world—the Olympic dwarfed to a channel steamer—the narrows beyond—and then the wide roll of the Atlantic—it hangs for ever afterwards in the memory like a great picture in a gallery.

WHY BRICK HOUSES ARE CHEAPER.

An Indianapolis architect, who was recently asked by a prospective home builder why so large a number of small houses were being constructed with brick exteriors instead of frame, as in the past, and questioning the economy of brick construction, made the following statement, reported by "Brick and Clay Record."

"There is a belief in the minds of a great many people that brick construction costs from 40 to 50 per cent. more than frame construction. Experience and investigation, however, have shown this belief to be a fallacy. The large number of brick residences that have been built during the last year have done much to establish the fact that brick is really the best material for the economical builder to use.

"An investigation of the costs of building materials with the aid of an architect will prove both interesting and instructive, especially when the brick construction is compared to the cost of frame construction. In frame construction, labor is employed in seven different instances, namely: (1) The studding, which forms the frame of the building; (2) the sheathing; (3) the building proper; (4) the weather boarding; (5) the lathing; (6) the plastering, and (7) the painting, which requires three coats to get good results. In brick construction but two processes are necessary: (1) The brick work, and (2) the plastering.

"Carefully compiled statistics show that the actual cost of brick walls over frame varies from 15 to 40 per cent., depending largely on the price of the fact brick selected. As the walls of any building cost only about 10 per cent. of the total, brick construction would add only from 2 to 4 per cent. to the total first cost of the building. As it is necessary to repaint a frame dwelling every few years, it will readily be seen that brick construction, besides being the best, is the cheapest. A building constructed of brick is much easier heated than a frame one, and the saving in fuel is an item to be considered. Also, it must not be forgotten that with the faces and shades of brick now being manufactured it is possible to build a handsomer building of brick than from any other material."

The day is fast waning when architects will tell clients that it is impossible to build in brick unless an expenditure of a large amount is contemplated; experience has proven a costly teacher, but the lesson is well taught and the knowledge widely spread.

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Editorial Comment

We've all met, somewhere or another, in our travels "the grandfather man"—that peculiar, foggy type of business man who, mistaking obstinacy for conservatism, clings tenaciously to everything that is old and as vigorously opposes everything that savors of the new, the novel or the untried. This is the type of man that is not afraid to admit bluntly that he "doesn't believe in advertising." "My father never advertised," he will tell you, "nor did my grandfather, yet they established this business." No use trying to make this class of foggy understand that business and methods of doing business have since undergone a positive revolution—that the methods in vogue in his father's and grandfather's days, while admirable enough for their time, would simply not do at all under present-day conditions,—that times have changed and business has changed and methods have changed until it has come to pass that the leisurely, dignified and reserved manner of doing business in vogue thirty or fifty years back would be as much out of place in the hustling, planning, workaday world of to-day as a mummy at a feast. It's not easy to make the foggy element see it, but it is a fact none the less that business ideas have undergone within the past thirty years an epoch-making change. There was a time when the reputation of a firm was its principal asset, when patronage gravitated to certain concerns because of their honorable antecedents and without reference to any minor considerations. It was not a question in those days how cheaply goods could be bought but how good. Quality was the first consideration. And as certain fine old houses had succeeded after a lifetime of honorable activity in more or less indissolubly associating their names with the idea of excellence in certain lines, the goods of these houses sold for many, many years wholly on "past performances" and would have been selling yet had their manufacturers, perceiving the change which set in, been quick to adopt new ideas of selling and of merchandising, and so kept pace with the march of progress. How many fine old concerns most of us are able to recall who have dropped out of public view because "conservative" to the last they stuck to old foggy methods while newer and younger and more enterprising concerns broke in and appropriated the field in which they were so long dominant. Frank Tarrington discussed "The Grandfather Man" in a recent number of "The National Builder."

* * *

"Who is the Grandfather Man?" he asks.
"He is the man who sees things the way his grandfather saw them, who does things the way his grandfather did them, and who thinks that way is good enough."

"When we call such a man conservative we flatter him."

"No man can go about his business with

the Grandfather attitude of mind and not be behind the times. And the worst of it is, the Grandfather Man is satisfied to stay behind the times. He does not even realize that he is behind.

"We all know this type of man who even takes pride in his position and pats himself on the head and proclaims that what was good enough for his father and his father's father is good enough for him."

"Such a man may make himself bald with the patting but he will never dull his shears clipping coupons."

"This location was good enough for Grandfather; this method was good enough for father; this equipment has always been all right; that kind of statement is chronic with the Grandfather Man. He is the original standpatter in business."

"Unless he dies a very young man he will make his first sensation when he appears in the 'Business Difficulties' column. Even the goddess of luck cannot produce a twentieth century success with nineteenth century ideas."

"Not only does the Grandfather Man hamper his own progress; he is an obstruction to the progress of any community in which he lives, and to the progress of anyone who tries to do business with him. He is in his own and everybody else's way."

"What business he does he does because his father was not a Grandfather Man, but a progressive whose methods were as far advanced as he could make them in his day. In other words, the Grandfather Man is a Grandfather Man in methods but not in ideas. He is behind his own grandfather."

"Because such a man is never in a hurry himself, he thinks no one else need be. He is a stumbling block."

"Even those of us who are not Grandfather Men and who scorn the term may find, if we analyze our attitudes and positions, that we have a little tendency that way. It is natural for us all to slide toward the rut."

* * *

"We are apt to get into the same old way of doing things, the way we perhaps learned from predecessor even if that predecessor was not father or grandfather."

"We used to be prodded and inspired day after day, and if we start in with Grandfather methods, every day we follow them it will become harder to change."

"At fifty it takes us longer to get up momentum, so unless we take care to keep up the momentum developed earlier we will probably find we are getting behind and taking the dust of the other fellows."

"It is expensive business, being a Grandfather Man. Nobody can afford to be one until he becomes a grandfather, and if he puts it off until then, he won't want to be one."

Mr. Arthur Brisbane is the editorial factotum behind the Hearst newspapers. Said to be the highest salaried newspaper editor in the United States, if not in the world, Mr. Brisbane is credited with being able to write with some authority on a very wide range of the ordinary topics of the day. One of the topics seized upon by the scholarly Mr. Brisbane not long since was the much-mooted question of limiting building heights.

"The Commission of New York City," observed Mr. Brisbane, "has signed a bill giving the Board of Estimate and Apportionment the authority to limit the height of buildings in New York.

"The Mayor says he signed the bill in order to make possible a test case for those who declare that such a bill is not constitutional. A limit on the height of buildings exists in Chicago.

"Constitutional or not, a limit to the height of buildings is certainly SILLY.

"Human beings want to find out just how much they CAN do, not to find pretext for limiting their efforts.

"Again we beg to impress upon our wise lawmakers, upon our would-be 'artistic souls,' and upon near-sighted property owners, that the interesting and important questions is:

"HOW HIGH CAN MAN BUILD, TO WHAT EXTENT CAN HE CONQUER GRAVITY?

"Leave it to the majority of the people, and ninety-nine out a hundred would rather see a building one thousand stories in height than learn that somebody's 'artistic taste' or somebody else's real estate greediness had succeeded in limiting man's experiments.

"The new step upward and forward is the skyscraper, the wonderful palace of glass and steel, the house that is destined to be a city under one roof.

"Let those who limit the height of buildings consider this prophecy, which we made months ago and here repeat:

"Human beings now living will see buildings that will cover many blocks, buildings that will go hundreds of stories into the air, having their streets and their street car lines a thousand feet above the surface.

"The great city of the future will be such a city as might be built on Manhattan Island, covering the whole of the island from Fifty-ninth street to the Battery with one single palace of glass and steel, with the solid rock of the island for its support, with landing places for the flying ships that will bring the workers and the managers from their homes hundreds of miles away in the country.

"Let us find out what man CAN do in the way of skyscraping construction.

"It will be time enough then to tell him what he must NOT do.

"A tiresome thing is the individual constructed mentally like a balky donkey, whose one instinct is to say, 'DON'T' "

* * *

A novel view of the question at the least. Extremish rather than rational, and fanciful rather than germane. In violent contrast to the Brisbane viewpoint is a contribution deal-

ing with the same subject from the pen of Mr. N. Serracino, a well-known New York architect. Mr. Serracino's communication follows:

"While so much is being said about the construction of skyscrapers, I should like to give my opinion on the subject.

"I am in great favor of limiting the height of the buildings in proportion to the width of the streets or the square on which the building is to be erected.

"I would suggest that all plans for buildings which are to be built on important streets of New York City should be passed by the Art Commission.

"Skyscrapers are horrible from the artistic standpoint, especially those built on narrow lots.

"From the engineering standpoint: All the skyscrapers are erected of a steel skeleton and it is this material that supports the load, the brick, stone and terra cotta being only an enclosure of the building. Everybody knows that when steel is not very well protected it corrodes and loses its strength. In a building where there are many plumbing and heating pipes, the steel is likely to be injured by leakage of pipes, and as there are electrical currents in the buildings for lights and telephones, the steel is apt to disintegrate on account of electrolysis, due mostly to the unavoidable current of induction, and I see great future danger to this kind of construction. If the work for all the skyscrapers would be performed by high-class architects and civil engineers, who would take care that all the steel work would be protected, I should not foresee such great danger, but unfortunately, I notice that the construction of tall buildings is going into the hands of speculative builders who buy the plans from a draughtsman, for so much per set, then they sublet the work per lump figure to the cheapest contractors. I see enormous dangers that are likely to result from buildings erected in this way. Speculative builders have in mind when erecting a building, only the sale of said building; they do not give any thought to whether the building is properly constructed or whether it will improve the appearance of the city. Construction of such important buildings should be entrusted only to competent architects and engineers (for there are many in America), who should be responsible for at least 20 years.

"I am writing this from a disinterested point of view, and have no personal aim other than to express my opinion on such a widely discussed topic."

* * *

By way of showing that great minds if they agree at all in dealing with this question agree chiefly to disagree, we beg to call attention to an article reproduced in this number by Twells Brek, of the "London Daily Telegraph." Mr. Brek finds the skyscraper the finest and most distinctive achievement of our American architecture. He says of it—but, there, don't ask us to quote it. The article is brief at best and will repay careful reading. You will find it on another page of this number of the "Guide."

RECENT TRADE LITERATURE.

We are in receipt of the June number of "Doorways," the attractive and readable little house organ of the Richards-Wilcox Manufacturing Company, of Aurora, Illinois. The title page illustration shows a June bride and groom within a wedding ring symbolic of the season, and the text consists of cleverly written descriptive matter covering the advantages of the R. W. Co. sliding doors. A feature of the number aside from its serious pages is a page of uncommonly well selected humor. "Doorways" is in two colors, is most effectively illustrated and is worth the attention of architects, builders and others interested in the subject of doors and doorways. A copy may be had on request by parties who take the trouble to write addressing the Richards-Wilcox Company, Aurora.

* * *

The latest "kink" is an everlasting screw hole. It is manufactured by the Stine Screw Holes Company, of Decatur, Illinois, and is a genuine novelty. No plugging the wall for this screw. A small hole, a few taps of the hammer and the thing is done. And the screw hole remains an essential feature of the wall thereafter. You can use it next summer or next winter or at any future time whenever occasion requires. No description can do this little novelty justice. The screw hole is of brass pointed at one end and is fitted with a driving attachment allowing it to be driven into the wall in a few seconds. The screw is threaded to this screw hole and can be inserted and withdrawn at will. Write for a sample and you'll see in a glance how the contrivance works. Address the Stine Screw Holes Company, Decatur, Ill.

"Noah filled the ark," says an exchange, "without advertising."

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EASTERN ARCHITECTS BANQUETED.

Cass Gilbert of New York and Paul P. Cret of Philadelphia were banqueted by San Francisco Chapter, A. I. A., on the evening of May 4th. Messrs. Gilbert and Cret, with James D. Phelan, comprised the jury to select the architect for the New San Francisco public library. "The San Francisco Architect and Engineer" observes: "Cret has won a number of prizes abroad for architectural designs, including the Paris prize of 1906, Rongevin prize of 1901 and the grand medal of emulation, Ecole des Beaux Arts, Paris, 1901. He was architect for the Pan-American Union in Washington, and is a member of all the notable architectural associations."

A NEW IDEA.

"Here is a new idea in metal roofing, a new idea to me, at least, and I think it is quite a good one." He turned the sheet of metal roofing over, at this, and showed the under side, on which was tightly cemented a sheet of rosin-sized building paper, and said: "This is called protected roofing and the idea is that metal roofing when it does suffer and rust, does so from the under side. On the outside it can be kept protected by fresh coats of paint as time passes, but the under side can not be gotten at after it is once laid, and if laid on bare sheeting some moisture will go through and it sweats a little, and finally sets up rust. One way to guard against this is to put a layer of building paper on the sheeting before laying the metal; but here is an idea that saves time and trouble and is better than that. The paper is cemented to the metal itself and thus protects the inside from rusting. It may cost a little more, but it adds more to the quality than it costs, and is an excellent talking point.

TRADITION IN ARCHITECTURE

"It might be said that we spend too much time telling men what others have thought and done," comments an English contemporary, "so that they lose both the time and inclination to try and do, or think out, things for themselves. The best way to learn a thing is to try and teach, or do it.

"We might perhaps with advantage make it more a point in education, or rather instruction, to show men how to study old buildings before trying to design new ones. It would be merely to follow the accepted course in the study of letters leading up to arts in literature. Grammar and structure, phrase, rhythm, sense and idea; these cannot be well understood except by those who have been shown how the old masters of poetry or pros framed the language in which they left their thoughts to posterity. In art we seem so much at variance with such sound method as this. We try too soon to produce without first storing our minds with the raw materials of production. Education in architecture seems to begin before instruction has been carried far enough.

"It does not appear to be a definite part of a curriculum, either in Paris or in London, that the students should prepare studies of the earlier traditional work of any school. At least this is the impression given by the exhibition as a whole. It might be said in reply that a school for the study of design in modern architecture should encourage individual creative composition and not the study of archaeology. Yet it is surely a fact that all the living schools of architecture in the past were intimately based upon, and closely derived from, a knowledge of the traditional and historical methods which preceded them, or were being used as the accepted manner of the time. For us here, or for our friends in France, to belittle these sources of inspiration must surely be unwise.

"It is doubtless an indisputed fact that any real progress in architecture as a fine art must begin with a close personal examination of old buildings themselves. It is too much the practice now to rely upon books, photographs, or the original graphic studies of others. The result is that men get a second-hand, instead of a first-hand, acquaintance with architecture itself. Perhaps it may be true that, on the whole, our students generally give more time to this method than some others, though it is quite evident that few among us devote so much time to the preparation of magnificent drawings elaborately finished as our French brethren who go to Rome. It may be questioned how far the mere making of drawings, however fine, is conducive to the production of architecture. But few will question the statement that a genuine study of architecture is better conceived and better accomplished by those who make it their business to study buildings as a whole in plan and arrangement, composition and de-

sign, in mass, in shadow or outline, and the relation of parts, than by those who see them and draw them piecemeal only.

"Any drawing of isolated parts may provide opportunity for the exhibition of skill in the presentation of what is beautiful in itself, and also as a drawing. But the study of a part is not equal to the study of the whole as an exercise in manual, mental or imaginative enterprise. For a would-be architect to dwell in this way upon detail, and the delights of decoration, if it is done at the expense of larger views concerning the relative values of parts in a total composition, is to defeat the ends of his own existence. The one great justification for the modern position of an architect is that he is, or should be, able to grasp things in their larger relations, bringing subordinate parts into unity as portions of a greater whole, and to arrange a harmony in the decorative details which shall aid in giving some appropriate expression to the purpose of the building. To be able to do this he must plan the whole, construct the whole. And in doing these half the battle of designing the whole will be fought, and his attention becomes free to play in fancy, and in fact, with the subordinate, but complementary, things as their relative importance requires.

"It has always seemed to be rather a weakness in our own methods that we do not sufficiently emphasize the fact that in architectural education men should be required to show that they have personally made themselves acquainted with typical buildings of selected periods of architectural history. Such a requirement might be so framed that the work indicating this familiarity with standard examples should show that all sound architectural and structural principles have been considered in preparing it, and that the reason for the distribution of parts in relation to the whole is appreciated. If during a four years' course several comprehensive studies of old work, each different in character, design, and detail, were required, the result must surely be a marked improvement in capacity for creative design. Particularly might this be the case if, during the course, a certain limited number of the studies in design had to be prepared in accordance with the principles and details of certain special periods of architectural development laid down by the master directing the studies.

"What is the standard by which we are to measure architecture as a fine art? Is it by that of the Italian Renaissance, of Greece, Rome, Byzantium; or by that of the Gothic era, early, middle, or late? During the period in which work generally called Romanesque was developed many principles and methods were used we should do well to watch. But are there no other types along the lines of

experimental tradition at which we may look for standards, not of taste, of design, or of method only; but of procedure? We are too much accustomed to call things Classic which are Greek or Roman, and Neo-Classic if they are derivations from these peculiar schools. If we would understand, and estimate at its full value, the results of European effort in architecture we must realize something of the political, social, and religious condition of the race and nation in which we find certain typical developments.

"Surely the mere personal bias of some writers on architecture must not be allowed to narrow down our view of what architecture really is, and may be. Some, it seems, would have us believe that architecture is a fine art can never be seen except on the lines of Greek or Roman schools. Scale and proportion, mass, outline, symmetry, harmony between parts and the whole, between decorative detail and constructional main lines, are undoubtedly things to which little enough attention is paid. But are our students, or the the French students, taught them in the many and varied aspects in which they might be presented to them?

"The use and the need, or otherwise, of balance and symmetry in relation to scale and proportion, in the major and minor parts of a composition, might be a useful theme for many an instructor to open out to his students. Each subject might be well worked upon without any reference to detail in half a dozen traditional methods. The same might be said of the relation of solids and voids, texture, color and shadow.

"Grace, elegance, reticence, dignity severity, action or rest, may sound mere words, but they must often be held in mind as the foundation on which to base design. The dominating sense in the expression of so much work to-day is surely not one which satisfies us generally. Personal elements well stated, in place of impersonal ones, may have their value and their interest, but it is a fading interest unless the personal feeling or character expressed has something fine about it which may appeal in general to the high motives of humanity.

"I should suppose that some of the aspects of Roman and Greek art are as entirely foreign to the real French temper as they are to that of the English as a race. The political, social, and religious attitude of both races is so entirely different from that under which Rome and Greece developed their arts. Though the artistic principles we may find in the work of these elder folk will often stand every test of soundness in design, as far as they were able to carry them, for us to suppose that such principles are confined within the limits of certain constructive methods seems rather a narrow view to hold.

"Is there really nothing classical in Gothic art or in the many lively and interesting derivations from it? Much Gothic sculpture, carving, and color is, as a part of architecture, in its way quite equal to that of Greece or Rome. And this both in technical skill, composition, and expression. Doubtless they are but parts of the detail and decorative

substance of an architectural whole, but as such they give a stamp of character and type of distinction to all they were used to embellish.

"It is not suggested that Gothic art as it developed, and was applied, in ecclesiastical buildings should be copied or merely translated into terms of modern phrase. Any such attempt would be quite as dull and insipid as many efforts to misuse the teaching of other traditional schools. But it definitely claimed that students who close their eyes to the great scientific and intellectual achievements which grow out of, and developed under, the influences of the Gothic school, and its derivatives in Western Europe, are missing the opportunity of studying principles of freedom which may and will go a long way in helping them to solve the difficulties, and meet the practical as well as artistic claims, of the future.

"Let us not bind ourselves to the great principles which may be studied in every traditional school. For it is such principles, and the things we may develop from, and through, and beyond them, that the hope of modern architecture is hidden. Principles will stand, details in decoration must change.

"It is to the pedantry of bookish scholarship we must assign the responsibility of checking a new course in the enterprise of architectural development. In both England and in France men were on a voyage of discovery and adventure when the Italian influence asserted its claims to scholastic superiority. What the church and state had refused in one way the laity accepted in another. Doing and some after the Reformation era in Europe, a Roman art began its domination over the national arts.

"In the train of the Reformation period in faith followed a revolution in art and letters, the result largely of conquest by arms. The course of historic evolution in architecture was snapped—or rather sapped, for the process was not rapid, but slow, which stifled free speech in art and substituted that form dictated by patronage and power. It was in those days the privilege of the wealthy few who could travel, or read, to dictate and enforce their views on the native skill and genius of the craftsmen, those heirs of immemorial traditions in art as well as life.

"It was thus and by these means that Italian thought supplanted both the native French and English tradition before it had time to evolve new methods, along old lines, to meet new needs. These traditions were stepping-stones with which the years were paved through centuries of a consistent logical progress which led to the threshold of the present before the door of the future at which the holders knocked to see what lurked beyond. From the two Roman centers in the Roman Imperial age two interesting streams of development in art emerged. The clash and then the mingling of Latin thought on the one side with the Eastern Barbarians, among whom were the Greeks, gave us Byzantium and the daring experiments of the Byzantine era. On the other side, the Barbarian elements were, it might be said, pure-

ly Teutonic and Celtic, and gave us the marvelous developments of Gothic art in France, Spain, and England after Latin influences had been withdrawn. Apart from the mingling of racial strains suggested, the tribal, national elements were pure, strong and emphatic. And it is on this, and from this element and condition, no doubt that the decisive character of the older forms of artistic tradition in architecture and the complementary arts is derived.

"Modern states present a new condition; both in Europe and elsewhere, and consequently it is, perhaps, unlikely that such distinctive national strains in the arts will ever appear again. Though national genius and national aspiration are still evident, and perhaps growing stronger than they were as they emerge from the chaos of a spurious cosmopolitanism, the conditions and needs of the future can never again be those of the past. We must therefore in art, as in life, prepare for the living future, and not attempt to dwell with the dead citizens of the buried cities of the past.

"Tradition and education in letters have given us the modern literature of Europe as they have given us architecture and the arts up to the period miscalled the Renaissance. A revival, but not re-birth; a revival too, which, though it did bring much new life, caused much decay of vigorous life and broke a thread of life. Do not men who write to-day do so in their own native tongues? Did not the Middle Ages produce these tongues, borrowing from earlier ones that tradition, custom, and practice required for their construction? Did they not, when this was done, discard the pedantic use of languages which were as dead as the civilizations they represented? And in the result can we admit any real loss in vitality of thought, expression, ideal, or aim? The principles of construction, and the ornaments of rhetoric, in the classics of modern literature make use of the classics of earlier days, but they do not attempt to copy them, nor even adapt, and apply them so as to concoct a medium for modern use.

"It is over the classics of Greek and Rome that there is so much dispute in the schools where these alone seem to be regarded as "the classics" exclusively. If this represents a claim for breadth of view in education it is an extremely narrow one. Are there no other classics in literature or art equally able to refine expression and cultivate ideals, in thought and manners? Surely the humanities are to be found in the arts, or discovered through them, as much as in letters, both in early and later ages.

"The advocate, therefore, who writes in English and advises to design in Greek or Latin forms to the exclusion of those born with the language in which he pleads his cause is neither consistent or practical. He borrows from the language of Chaucer, Spenser or Shakespeare in order to argue against the tradition and principle which made it possible to produce their works of art in letters, and that of their contemporaries in architecture."

FOR ENGINEERING UNITY

Co-operation of the Various Engineering Bodies Urged to Prevent Duplication in Research Work

Members of every scientific and engineering society in Philadelphia were present recently, to the number of 400, at a banquet and smoker on the roof garden of the Continental Hotel. Addresses were made by four prominent speakers.

Plans were suggested for a union of all the societies through the medium of an Executive Committee, in order that research and experimental work may be prosecuted along a program that will reach all the men interested without duplication.

The meeting, which was a forerunner of the annual convention of the National Electric Light Association to be held at the Bellevue-Stratford the first week of June, was addressed by Director Norris, of the Department of Docks; Dr. W. W. Keen, president of the American Philosophical Society; Dr. Walton Clark, president of Franklin Institute, and Dr. Alexander C. Humphreys,

president of the Stevens Institute of Technology.

Director Norris declared that the engineer is the most important factor to-day in solving problems of city government. His remarks were echoed in the speech of Doctor Humphreys, who asserted that the trained engineer, and not the lawyer, should be placed on such boards as the Interstate Commerce Commission and Public Utilities Commissions. He made a plea for fair dealing with "big business," asking that politicians also be eliminated from the social order if "big business" is to be eliminated.

The Executive Committee, in charge of the affair which will continue plans to bring the engineering men of this city together, includes George A. Headley, vice president of Swarthmore College, who presided as toastmaster; H. A. Horner, Joseph D. Israel, R. B. Owens, C. C. Tutwiler and J. A. Vogleson.

MEASURES FOR FIRE PREVENTION.

At the eighteenth annual meeting of the National Fire Protection Association the following measures were advocated in its warfare against the needless sacrifice of human lives and property by fire:

1. The encouragement of fire-resistive building construction through the adoption of improved building codes by all States, cities and towns. The inclusion in such codes of adequate rules for exit facilities based on the occupancy for all buildings.

2. The adoption of laws or ordinances requiring the installation of automatic sprinkler systems as fire extinguishing agents in all factories, commercial establishments and city blocks. The adoption of ordinances requiring the construction of fire division walls not only as a property protecting device, but as providing the best life-saving exit facility.

3. The establishment by law of a fire marshal in every State, who shall be a trained man with trained assistants competent to direct the work as statistician, educator and prosecutor.

4. The investigation of the cause of all fires by public officials.

5. The consolidation of all legal forces so as to provide for the systematic inspection of all buildings by local firemen, and technically trained building and factory inspectors so as to insure the vigorous enforcement of rules for cleanliness, good housekeeping, and the maintenance of safe and unobstructed exits, fire-fighting apparatus and other protective devices.

6. The especial safeguarding of schools, theatres, factories and all other place in which numbers of people congregate or are employed.

7. The vigorous State and municipal regulation of the transportation, storage and use of all inflammable liquids and explosives.

8. A careful study of municipal water supplies, their adequacy and reliability with special reference to their adequacy in care of conflagrations.

9. The universal adoption and use of the safety match.

10. The education of children and the public generally in careful habits regarding the use of fire.

WEIGHTS OF DIFFERENT KINDS OF ROOFING.

The weights of different kinds of roofing material as shown in the accompanying table are based on information recently published by the American Sheet and Tin Plate Company in a pamphlet entitled "Copper—Its Effect Upon Steel for Roofing Tin." Some calculations having a bearing on the average cottage home, as built throughout the country, have been made from the figures in the table to aid the reader in its use.

In many instances the popular type of home is 30x35 feet or thereabout in size, having a roof area of about 1,000 square feet. With most roofing materials some kind of sheathing is required and a weather-proofing material is laid upon it.

Material.	Average per sq. ft.
Corrugated galvanized sheets, No. 20, boarded	2¼
Copper, 16 oz. standing seam.....	1¼
Felt and asphalt, without sheathing..	2
Glass, ½ in. thick.....	1¾
Hemlock sheathing, 1 in. thick.....	2
Lead, about ⅛ in. thick.....	6 to 8
Lath and plaster ceiling (ordinary) ..	6 to 8

Mackite, 1 in. thick, with plaster.....	10
Neponsit roofing, felt, 2 layers.....	½
Spruce, sheathing, 1 in. thick.....	2½
Slate, 3-16 in. thick, double lap.....	6¾
Slate, ⅛ in. thick, 3 in. double lap..	4½
Shingles, 6x18—1-3 to weather.....	2
Skylight of glass, 3-16 to ½ in. inc. frame	4 to 10
Slag roofs, 4 ply.....	3
Terne plate, IC, without sheathing...	½
Terne plate, IX, without sheathing...	⅝
Metal shingles, painted	⅔
Metal shingles, tin.....	6-7
Metal shingles, galvanized.....	1
Tiles (plain) 10½x6¼x⅝—5¼ in. to weather	18
Tiles (Spanish) 14½x10½—7¼ in. to weather	8½
White pine sheathing, 1 in. thick.....	2½
Yellow pine sheathing, 1 in. thick.....	4

By referring to the table it may be seen that if the roofing material is tin plate, the weight of the covering will be at the outside ⅝ lb. per square foot and for 1,000 square feet the weight will be but 625 pounds. For a roof of the same size the weight for other materials would be approximately as follows: Metal shingles, 666 to 10,000 pounds; copper, 1,250 pounds; corrugated iron requiring no sheathing boards, 2,250 pounds; wood shingles, 2,000 pounds; felt and asphalt, 2,000 pounds; slag, 4,000 pounds; slate, 4,500 to 6,750 pounds; earthen tile, Spanish style, 3,500 pounds; plain tile, 18,000 pounds.

HE WAS UNDER OATH.

Smith was one of the foremost engineers of his time. His one fault was an enormous bump of conceit. He completed a piece of work for a large corporation and was compelled to sue for his fee, which was \$25,000, says the "National Monthly."

He was being cross-examined by the attorney acting as counsel for the corporation:

"On what grounds do you base your exorbitant charge for this miserable piece of work?"

"On the ground that I am the greatest engineer in the world."

After the suit had been concluded, one of Smith's friends came to him and in an admonishing tone said:

"Smith, you should never make such statements in public; allow others to acclaim you as the greatest in your profession."

Smith answered: "I know it, and I felt like a blooming idiot up there on the stand, but, blast it all, I was under oath."

TALL BUILDING AN ARCHITECTURAL JOY.

Herman Strunk, a noted etcher and portrait painter, after a visit to the United States, said: "Tall buildings in America are one of the greatest architectural joys of the world. American builders will do well to stick enaciously to the skyscraper school they have created and keep it distinctive, developing it along strictly original lines, instead of trying to graft Roman, Grecian and Gothic ideas upon it."

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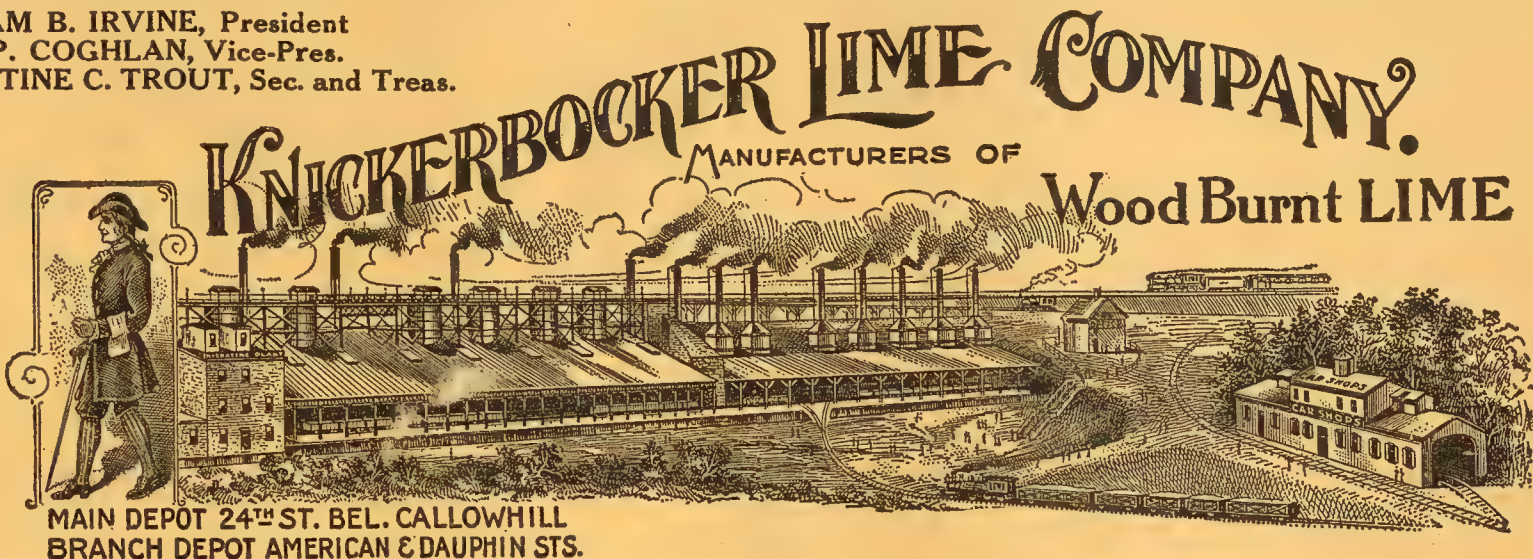
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Vol. XXIX., No. 24.

PHILADELPHIA, WEDNESDAY, JUNE 17, 1914.

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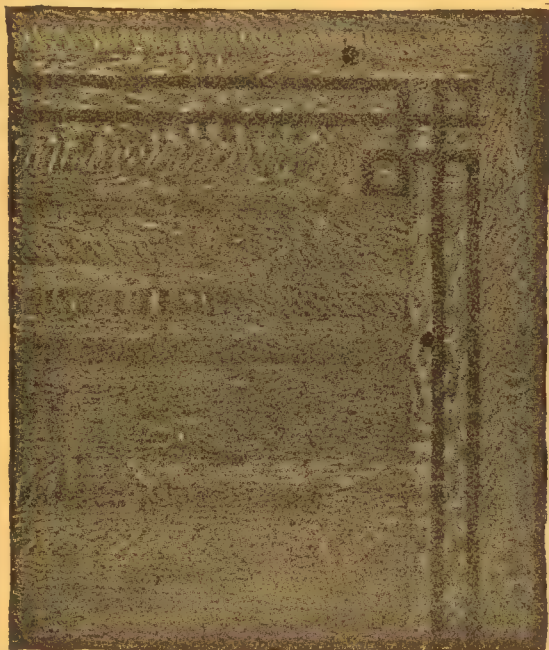
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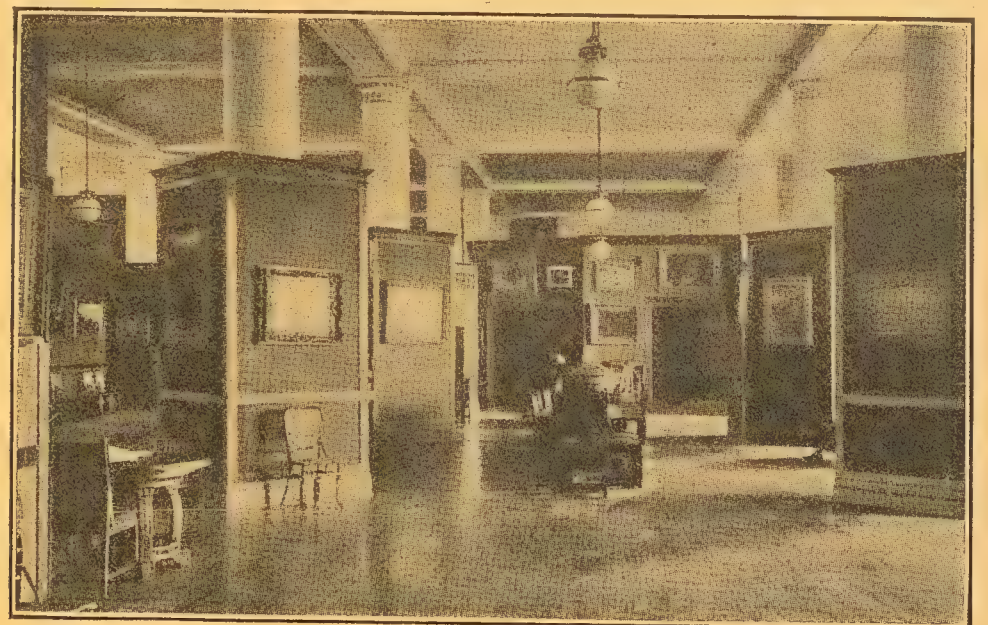
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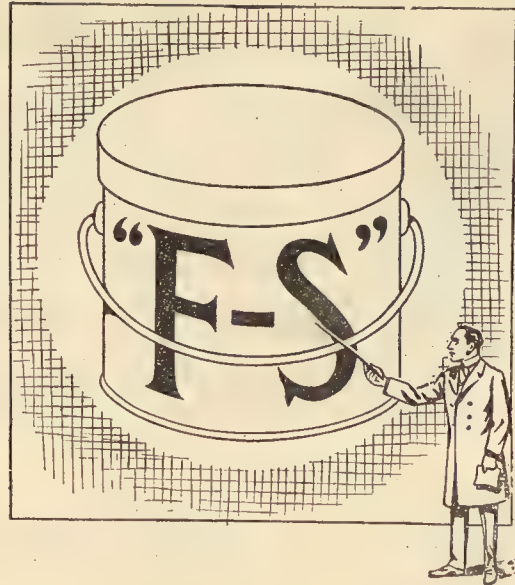
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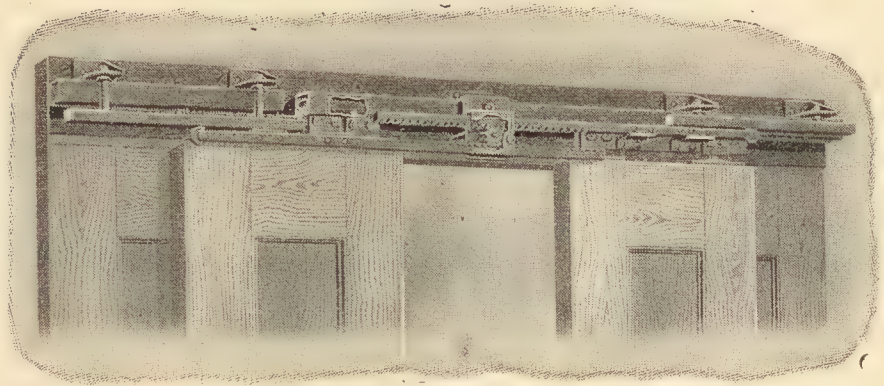
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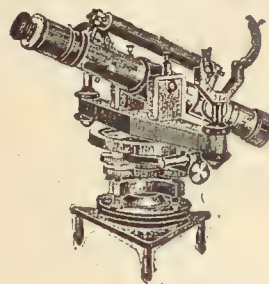
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Roxborough, Philadelphia. Architect, J. A. Platt, Jr., 721 Walnut street. Owner, Edward Kippax, 4230 Pechin street. Hollow tile and plaster, 2½ stories, 38x32 feet, shingle roof, hot water heating (electric work reserved). Architect received bids June 16th.

Fraternity House, 3533-35 Locust street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Delta Tau Delta, 3533 Locust street, care of John Costello, Chairman Building Commission, Commercial Trust Building. Brick, 3 stories, 46x80 feet. Plans in progress. Bids in one month.

Dye House and Finishing Building, Second and Lippincott streets. Architect, W. E. S. Dyer, Land Title Building. Owner, Joseph R. Foster & Sons, on premises. Brick, 1 and 3 stories, 56x195 feet, slag roof, metal sash and frames (heating and lighting reserved). Architect has received bids.

Hospital Building, 1234 North Fifty-fourth street. \$100,000. Architect, W. L. Blithe, 608 Chestnut street. Owner, West Philadelphia General Homoeopathic Hospital and Dispensary, on premises. Brick and steel, fireproof, 3 stories. Details undecided. Plans in progress.

Garage, 4805-07 North Broad street. Architect, private plans. Owner, Morris M. Gibb, York road and Rockland street. Brick, 1 story, 60x140 feet, slag roof, steam heating, electric lighting, expanded metal lath, egasoline storage system. Owner has received bids.

Covered Passageway, Eighth and Spruce streets. Architect, Walter F. Price, 714 Walnut street. Owner, Pennsylvania Hospital, on premises. Brick and stone, 1 story, slag and tile roof, steam heating, electric lighting. Architect has received bids.

Residence (alt. and add.), 330 North Fifty-second street. Architect, P. J. Kluges, 1012 Walnut street. Owner, Dr. E. C. Bender, on premises. Brick, 2 stories, 14x18 feet, slate roof, hot air heating, electric lighting. Plans in progress. Bids in one week.

Residence (alt. and add.), Overbrook. Architects, Magaziner and Potter, 603 Chestnut street. Owner, E. A. Bookmyer, Overbrook, Phila. Plaster and brick, 2½ stories, tile roof, electric lighting. Architects taking revised bids due June 19th. The following are

figuring: Stacy Reeves & Sons, 2011 Market street; W. H. Roberts, Ardmore, Pa.; Milton Young, Overbrook, Pa.; Alfred James, Bala, Pa.

Manufacturing Building (alt. and add.), 5605 Germantown avenue. Architects, Ballinger and Perrot, 1211 Arch street. Owner, C. A. Asher, on premises. Brick, 3 stories and basement, 20x170 feet, slag roof, steam heating, electric lighting. Architects taking bids due June 19th. Samuel Harting, 20 East Johnson street; W. J. Gruhler, 219 High street; W. C. Wright, 22 Harvey street; A. Sorber & Sons, 18 Harvey street; Stokes Bros., 6723 Musgrave street; F. L. Hoover & Sons, 1023 Cherry street; Ketcham & McQuade, 1029 Brown street; Thomas C. Trafford, 1613 Sansom street; J. Sims Wilson, 1125 Brown street; Haibach Contracting Company, Twenty-sixth and Thompson streets, are figuring.

Residence, Germantown, Phila. \$20,000. Architect, E. B. Gilchrist, 1424 Walnut street. Owner, W. M. C. Kimber, 545 Wister street, Germantown. Stone, 2½ stories, 55x80 feet, tile roof (heat and light reserved). Architect has received bids.

Hospital (add.), Thirty-third street and Powelton avenue. Architect, Walter H. Thomas, 130 South Fifteenth street. Owner, American Oncologic Hospital, on premises. Brick, 2 stories and basement, 40x50 feet, slag roof, metal lath, metal frames and sash, waterproofing (heating and lighting reserved). Architect taking bids due June 19th. The following are figuring: H. H. Burrell, 1204 Chancellor street; F. E. Wallace, 1210 Sansom street; J. G. Doak & Co., Crozer Building; F. W. Allison & Co., 1710 Rittenhouse street; J. P. Thompson, Real Estate Trust Building; J. W. Hutton Co., Harrison Building; Metzger & Fisher, Denckla Building.

Residence (alt. and add.), Oak Lane, Pa. Architect, Charles Schaeff, 1524 Chestnut street. Owner, Dr. Joseph Cramp, on premises. Stone, 2½ stories, consists of interior alterations and addition. Architect taking bids. Speet & Sperry, Heed Building; Thomas C. Trafford, 1613 Sansom street; John Morrow Construction Co., 308 South Twelfth street;

W. J. Stevens, Wynecote, Pa., are figuring.

Store Building (alt. and add.), 1527 Walnut street. Architects, Guy King Co., 1513 Walnut street. Owners, Hughes & Muller, 1512 Walnut street. Brick and stone, 4 stories, 29x181 feet, steam heating, electric lighting, oak floors, metal frames and sash, metal lath, elevators. Architect taking bids due June 19th. The following are figuring: A. P. Fraim, 319 Market street; A. Whitehead, Inc., 1624 Latimer street; William R. Dougherty, 1610 Sansom street; A. MacTavish, 1513 Pine st.

Residences (27), Second street and Snyder avenue. Architect, private plans. Owner, Mark Haller, 2123 South Fourth street. Brick, 2 stories, 15x38 feet, slag roof, hot air heating, electric lighting, oak floors. Plans in progress. Owner will take sub-bids.

Stores (alt. and add.) (3), Fifty-seventh and Pine streets. Architect, F. N. Greisler, Lafayette Building. Owner, James Kullidjian, on premises. Brick, 2 stories, slag roof, electric lighting, oak floors. Architect taking revised bids due June 19th. The following are figuring: M. J. Benamy, 3042 West York street; Samuel Schultz, 923 East Moyamensing avenue; Klos & Reiff, 1132 Race street.

Store and Dwelling, 629 Bainbridge street. Architect, F. N. Greisler, Lafayette Building. Owner, H. Valinsky, on premises. Brick, 3 stories, 16x72 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Store and Show Rooms, 1321 Vine street. Architect, Charles E. Oelschlager, Harrison Building. Owner, Famous Players' Film Exchange Co., 1331 Vine street. Brick and stone, 2 stories, 16x136 feet, slag roof, steam heating, electric lighting, metal lath, metal ceilings. Architect taking bids due June 18th. The following are figuring: William R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; F. A. Havens Co., 845 North Nineteenth street; P. J. Hurley, 1233 Cherry street; E. J. Kreitzburg, 1345 Arch street; Frank Lucci, 1351 Christian street; J. R. Jackson, Perry Building; Isaac T. Shoemaker, 6910 Mower street.

Residence (137), **Stores (4)**, Twentieth and Conlyn streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, Armstrong &

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Wiley, 5234 Schuyler street. Brick, 2 stories, 16x31 feet and 16x35 feet, slag roof, hot water heating, electric lighting, oak floors. Owners taking sub-bids on all lines.

Apartment House (add.), Broad and Lombard streets. Architects, The Stebelmer Studios, 35 South Sixteenth street. Owner, E. C. Brown, on premises. Brick, 3 stories, 18x60 feet, tin roof, steam heating, electric lighting, metal lath. Revised plans in progress.

Bank Building (alt. and add.), Broad and Diamond streets. Architect, Benjamin R. Stevens, 1737 Filbert street. Owner, Broad Street Bank, care of Dr. Mayer, Broad and Cayuga streets. Brick (3 stories, 18x20 feet, slag roof, steam heating, electric lighting, oak and composition floors. Revised plans in progress. Bids in a few days.

Bird House, Thirty-third street and Girard avenue. Architects, Mellor & Meigs, 205 South Juniper street. Owner, Philadelphia Zoological Society, on premises. Brick and concrete, 1 story, 78x143 feet, slate roof heating and lighting separate bids), metal lath. Architect taking bids due June 24th. The following are figuring: J. S. Cornell & Sons, Land Title Building; Henry L. Brown, 1714 Sansom street; Thomas Little & Sons, 1713 Moravian street; H. H. Burrell, 1204 Chancellor street; R. C. Ballinger & Co., 218 North Thirteenth street.

Church (alt. and add.), Broad and Oxford streets. Architect, James S. Duffy, 1512 Arch street. Owner, Oxford Presbyterian Church, care of John H. Smaltz, Chairman, 315 North Twelfth street. Stone, 1 story, slag roof, expanded metal lath (heating and electric work, lockers reserved). Owners taking bids. Smith-Hardican Co., 1606 Cherry street, is figuring.

Hospital, Howard and Diamond streets. Architects, Watson & Huckel, 1211 Walnut street. Owner, Kensington Hospital for Women, 136 Diamond street. Brick, fireproof, 4 stories and basement, 50x70 feet, slag roof, steam heating, electric lighting, elevators, metal frames and sash, water-proofing, metal lath. Plans in progress. Bids in two weeks.

Coal Trestle, Fourth and Allegheny avenue. Architect, William Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Reading Terminal. Concrete and steel, 300 feet long, slag roof. Owners taking bids, due June 22nd. F. W. Van Loon, Denckla Building; J. Sims

Wilson, 1125 Brown street; F. A. Havens & Co., 845 North Nineteenth street; F. L. Hoover & Sons, 1023 Cherry street; Brown-King Construction Company, Harrison Building; A. L. Carhart, Hale Building; Enos L. Seeds, 6314 Wissahickon avenue; H. E. Baton, Twelfth and Sansom streets, are figuring.

School, Cheltenham, Pa. Architect, Herbert C. Wise, Franklin Building. Owners, Board of Education, care of J. Holden, Fox Chase, Pa. Brick, 2 stories, 40x60 feet, slate roof (heating and lighting reserved). Plans in progress.

Residence, Sixty-sixth and Woodbine avenue, \$25,000. Architect, Horace Trumbauer, Land Title Building. Owner's name withheld. Brick and limestone trimmings, 3 stories, Vermont green slate and slag roof, steam heating (central plant), red oak floors, expanded metal lath (electric lighting, metal weather strips and vacuum cleaning plant reserved). Architect taking bids, due June 18th. Milton W. Young, Overbrook, Philadelphia, and Frank H. Mahan, Ardmore, Pa., are figuring.

Church, Parish House and Rectory, Tenth and Rockland streets, \$50,000. Architect, J. Franklin Stuckert, 112 South Forty-third street. Owners, Bishop Nickolson Memorial Reformed Episcopal Church, care of Thomas Martindale, Tenth and Market streets. Stone and plaster, 1, 2 and 3 stories, 90x140 feet, slate and slag roof (steam heating and electric lighting reserved), dampproofing. Revised plans in progress.

Apartment House (add.), Broad and Lombard streets. Architects, the Stebelmer Studios, 35 South Sixteenth street. Owner, E. C. Brown, on premises. Brick, 3 stories, 18x60 feet, tin roof, steam heating, electric lighting, metal lath. Owner taking revised bids, due June 20th. W. J. Robinson, 1508 Lombard street; Belmar Company, 35 South Sixteenth street, and A. Whitehead, Inc., 1624 Latimer street, are figuring.

Stable, Sixteenth and Fontain streets. Architect, private plans. Owners, Moore & Carver, 1305 Diamond street. Brick, 2 stories, 26x120 feet, slag roof, electric lighting. Owner taking bids, due June 18th. James C. Driscoll, Hale Building, and William Steele & Sons Company, 1600 Arch street, are figuring.

High Explosive Building, Frankford, Philadelphia. Architect, private plans. Owner, United States Government, care of Colonel George Montgomery, Frankford Arsenal, Phil-

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Philadelphia. Brick, steel and concrete, 1 story, 48x199 feet, asbestos slate roof, composition floors, metal frames and sash. Owner taking bids, due July 14th. P. J. Hurley, 1233 Cherry street; Ed. Fay & Sons, 2 South Mole street; J. W. Emery, 1524 Sansom street; E. T. Bender, 6014 Torresdale avenue; James

Connor, 2848 Frankford avenue; Mitchell Brothers, 2125 Race street; H. H. Wehmeyer, 1004 West Lehigh avenue; McManus Contracting Company, 414 Wood street; Ketcham & McQuade, 1029 Brown street; M. P. Murphy, 263 South Tenth street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building, Seventeenth and Ranstead streets. Architects, Ballinger & Perrot, 1211 Arch streets. Owners, Charles Lentz & Sons, 18 North Eleventh street. Brick and terra cotta, fire proof, 5 stories, 45x51 feet, slag roof, steam heat, electric light, composition floors, safety treads, steel sash and frames, metal lath. Contract awarded to James G. Doak & Co., Crozer Building.

Office Building, 1520-22 Chestnut street. \$3,000. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, Estate of H. R. F. Baker, 421 Walnut street. Brick and stone, waterproofing, metal frames and sash (steam heating and electric lighting reserved), consists of interior alterations and additions. Contract awarded to F. T. Mercer Co., 1706 Delancey street.

Fire Tower, 1722 Arch street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, G. B. Young, 1206 Arch street. Concrete and brick, 4 stories, 8x13 feet, Carey's roof. Contract awarded to William Ferguson & Son, 405 South Twenty-first street.

Church, Paul and Ruan streets, Frankford, Phila. Architect, H. G. Hamer, Glenside, Pa. Owners, Mater Dolorosa Italian R. C. Church, care of Rev. Cosmos Brun, 4330 Paul street. Stone, 1 story, 125x53 feet, slate roof, steam heating, electric lighting. Contract awarded to Wilbert Beaumont, Stephen Girard Building.

Children's Ward, Twenty-second and North College avenue. \$14,500. Architect, C. E. Schermerhorn, 430 Walnut street. Owner, Woman's Hospital of Philadelphia, on premises. Brick and steel, fireproof, 2 stories, slag roof, steam heating, electric lighting, hollow tile and concrete fire proofing, tile and terrazzo floors, safety treads, metal lath, metal weather strips (heating and electric work reserved). Contract awarded to F. T. Mercer Co., 1706 Delancey street.

Fire Tower, Thirty-third and Baring streets. \$7,000. Architects, Mellor & Meigs, 205 South Juniper street. Owners, Old Men's Home, on premises. Stone, 3 stories. Contract awarded to Thomas Little & Sons, 1713 Moravian st.

Building (alt. and add.), 1127 Chestnut st. Architects, Watson & Huckel, 1211 Walnut st.

Owners, American Express Co., New York City. Brick and stone, 4 stories, steam heating, electric lighting, metal lath, metal sash and frames, elevators. Consists of interior alteration and addition. Contract awarded to A. H. Williams & Sons, 419 Locust street.

Building (alt. and add.), 1505-07 Arch st. Architect, C. E. Aadms, 1509 Arch street. Owner, R. W. Olhauser, 1509 Arch street. Brick, four stories, consists of new stone front. Contract awarded to J. A. Codori, 1235 Arch street.

Theatre, Seventeenth and Venango streets. Architects, Sauer & Hahn, 1112 Chestnut st. Owner, C. O. Kruger, care of A. M. Greenfield, Manager, Real Estate Trust Building. Brick and terra cotta, 1 story, 118x118 feet, slag roof, steam heating, electric lighting. Contract awarded to George Hogg, 1634 Sansom street.

Residence and Garage, Germantown, Phila. \$31,300. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Daniel H. Carstairs, 256 South Third street. Stones, 2½ stories, shingle and canvas roofs, warm air heating, electric lighting, oak floors, tile and marble work, metal weather strips, Vacuum cleaner, metal lath, reinforced concrete floors. Contract awarded to William H. Eddleman, 453 Green lane, Roxborough.

Church, Hunting Park and Germantown avenues. Architect, Louis H. Giele. Owner, St. Stanislaus R. C. Church, care of J. A. Godvyez, 242 Fitzwater street. Stone, 1 story, 75x138 feet, slate roof, steam heating, electric lighting. Contract awarded to Anthony Ziernicki, 1632 Hunting Park avenue.

Residence, Upsal street and Germantown avenue. \$9,000. Architect, C. E. Fogg, Llanerch, Pa. Owner, Mrs. Emily C. Fogg, Llanerch, Pa. Stone, 2½ stories, 32x48 feet, asbestos shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Samuel Harting, 20 East Johnson street.

Store Building, Thirteenth and Cherry sts. \$75,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, W. M. Steppacher & Sons, on premises. Brick and concrete, 2 stories, 25x60 feet, slag roof, steam heating, electric lighting, water proofing. Contract

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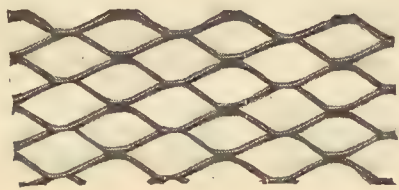
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awarded to Irwin & Leighton, 126 North Twelfth street.

Apartments (alt.) and Garage, 4617 Woodland avenue. Architect, C. E. Oelschlager, Harrison Building. Owner, N. Peterson, 4627 Woodland avenue. Brick, 1 and 3 stories, 18x28 feet, slag roof (heating and electric work reserved). Contract awarded to Tilghman & Speese, 5405 Regent street.

Children's Building, Chestnut Hill, Pa. Architects, Duhring, Okie & Zeigler, Bailey Building. Owners, Hospital for Consumptives,

Chestnut Hill, Pa. Hollow tile and plaster, 2 stories, 32x60 feet, slate roof (heating and lighting reserved). Contract awarded to Joel W. Hutton & Co., Harrison Building Philadelphia.

Church, Cheltenham, Philadelphia. Architect, A. A. Ritcher, Reading, Pa. Owners, First M. E. Church, of Cheltenham, care of J. Holden, Fox Chase, Philadelphia. Stone, 1 and 3 stories, slate roof, electric lighting, steam heating. Contract awarded to Joseph Ashby, Second street pike, Philadelphia.

PENNSYLVANIA

Construction News

Store (alt.), Morrisville, Pa. \$2,000. Architect, Calvin J. Young, 520 Washington st., Reading, Pa. Owner, H. Franenfelter, Morrisville, Pa. Consists of new bulk winddows. Owner is taking bids.

Candy Factory (add.), Reading, Pa. Architect, George L. Gerhard, 519 Penn street, Reading, Pa. Owners, W. G. Hollis & Co., 623 Franklin street, Reading, Pa. Brick, stone trimmings, 4 1/2 stories, 22x60 feet, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residences (2), West Reading, Pa. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Edward G. Ruth, West Reading, Pa. Brick, 2 1/2 stories, 28x48 feet, slate and tin roof, hot air heating, gas and electric lighting. Owner is sub-letting all contracts.

School, Leesport, Pa. \$16,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, School District of Onteleanne Township, care of Edmund Ahrens, Landin, Pa. Brick, 2 stories, 88x51 feet, slag roof, hot air heating, slate blackboards, electric lighting. Owner has received bids.

Bungalow, Wyomissing, Pa. \$3,500. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, Samuel M. Guss, 606 North Tenth street, Reading, Pa. Brick, stone trimmings, 1 1/2 stories, 28x40 feet, asbestos shingle roof, hot water heating, hardwood floors, tile work. Owner taking bids.

Bungalow, Manor View, Pa. \$6,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, H. M. Madison, 638 West Chestnut street, Lancaster, Pa. Brick and frame, 2 1/2 stories, 48x37 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking bids.

Residence, Lancaster, Pa. \$5,500. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, O. H. Shenk, Ridgway, Lancaster, Pa. Brick, 2 1/2 stories, 30x35 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking bids. John Grube and Frank Bachman, Lancaster,

Pa., and R. Sheetz, Petersburg, Pa., are figuring.

Parish House (add.), Lebanon, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, St. Luke's Episcopal Church, Lebanon, Pa. Stone, 2 stories, 27x50 feet, slate roof, steam heating extension, electric lighting. Plans in progress. Architects will take bids in one week.

Cottage, Elizabethtown, Pa. Architects, Zantzing, Borie & Medary, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, Grand Lodge, F. and A. M., Broad and Arch streets. Stone, 3 stories, 80x100 feet. Builder, Pomeroy Construction Co., 1609 Ranstead street, Philadelphia, is taking bids on hot water heating, electrical work and plumbing.

Residence, Chester, Pa. Architect, Harry Parker, Drexel Building, Philadelphia. Owner, William S. Blakely, Nineteenth and Providence streets, Chester, Pa. Brick and stone trimmings, 2 1/2 stories, slate roof, hot water heating, electric lighting. Plans in progress.

Residence (alt.), Cardington, Pa. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Josiah White, Marlborough-Blenheim, Atlantic City, N. J. Stone and frame, 2 1/2 stories, shingle roof, electric lighting (heating, separate bids by Architect). Architect taking bids. H. E. Grau Co., 1707 Sansom street, Philadelphia, is figuring (only bidder).

Chapel, Easton, Pa. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owner, Lafayette College, Easton, Pa. Stone and brick, 1 story, 125x130 feet, copper roofing, water proofing, metal lath (heating and lighting reserved). Architect taking bids due June 17th. George & Borst, 277 South Eleventh street, and J. E. & A. L. Pennock, Land Title Building, Philadelphia; Hoover & Sons, 1023 Cherry street, Philadelphia; F. W. Van Loon, Denckla Building, Philadelphia, are figuring.

Residence and Garage, Wawa, Pa. Archi-

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tests, Stearns & Castor, Stephen Girard Building. Owners, Mrs. Florence W. Wood, 2211 St. James' Place. Stone, 3 stories, 50x110 feet, slate roof (heating and lighting reserved), oak floors, hollow tile partitions, metal lath. Architects have received bids.

School, Newtown Township, Delaware Co., Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Marple & Newton High School, care of J. F. T. Lewis, Secretary, 115 South Thirtieth street, Philadelphia. Brick, 2 stories and basement, 70x80 feet, slate roof water proofing (heating and electric lighting separate bids. Owners taking bids due June 22nd. The following are figuring: Ed. Fay & Sons, 2 South Mole st.; H. E. Baton, Twelfth and Sansom streets; H. L. Brown, 1715 Sansom street; A. Bottoms & Sons Co., 41 South Fifteenth street; Mitchell Bros., 2125 Race street; F. T. Mercer Co., 1706 Delancey street, all of Philadelphia; Harry Roberts, Ardmore, Pa.

Residence, Villa Nova, Pa. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street. Owner, P. W. Roberts, Bellevue-Stratford Hotel. Stone and stucco, 2½ stories, 112x125 feet, cork, tile and oak floors, damp proofing and water proofing. Architects have received bids.

Schools (2), Erie, Pa. Architect, W. B. Ittner, St. Louis, Mo. Owner, Board of Education, Erie, Pa. Brick, fireproof, 3 stories, 113x229 feet, tile and slag roof, steam heating, electric lighting, water proofing, metal lath, steel rolling doors. Owners taking bids due June 22nd. Henry L. Brown, 1714 Sansom street, Philadelphia, is figuring.

Schools (2), Tamaqua, Pa. \$14,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Board of Education, Tamaqua, Pa. Brick, 2 stories, 26x95 feet, asbestos and slag roof, water proofing, metal lath (heating and lighting reserved). Architect taking bids due June 18th. F. Roe Searing, Perry Building, is figuring.

Residences (2), Bryn Mawr, Pa. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, Mr. Brown, 783 South Sixth street,

Philadelphia. Brick, 2½ stories, 36x40 feet, slate roof, hot water heating, electric lighting. Plans in progress. Owner will take bids.

School, Bryn Mawr, Pa., \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick, granite and limestone, fireproof, 2 stories, 162x78 inches, inlaid slate and slag roofs (heating and electric work separate bids), expanded metal lath, concrete floors, hollow tile, slate blackboards, structural slate, proposal bond. Revised plans in progress.

Fire House and Hall (add.), Colwyn, Pa. \$5,000. A architect, H. M. Pedrick, P. O. Building, Darby, Pa. Owner, Borough of Colwyn, Delaware Co., Pa. Brick, 3 stories, 25x85 feet, slag roof, hot water heating, electric lighting, asbestos shingle roof. Architect taking revised bids due June 17th. The following are figuring: Peter Halpin, Colwyn, Pa.; Julius Nelson, Darby, Pa.; J. Loudon, Lansdowne, Pa.; W. T. Graham, Glenolden, Pa.; P. J. Hurley, 1233 Cherry street; F. Roe Searing, Perry Building; W. J. Irwin, 5927 Kingessing avenue, of Philadelphia.

Residence, Noble, Pa. Architects, Druckemiller & Williams, Land Title Building, Philadelphia. Owner, J. Morris Daniels, 252 South Juniper street, Philadelphia. Stone, 2½ stories, 28x50 feet, slate roof, steam heating, electric lighting (flooring reserved), canvas roof. Plans in progress. Owner will take sub-bids.

School, Milton, Pa. \$65,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, stone trimmings, 2 stories, 71x156 feet, slag roof (heating and electric work separate bids). Owners received bids June 15th.

School (add.), Milton, Pa. \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, 2 stories, 27x70 feet, slate roof (heating and lighting reserved). Owners received bids June 15th.

PENNSYLVANIA

Contracts Awarded

Residences and Apartments (3), Reading, Pa. \$16,000. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, Miss Mayer, Tenth and Washington streets, Reading, Pa. Brick and stone, 3½ stories, 36x100 feet, tin roofs, hot air and hot water heating, gas and electric lighting. Contract awarded to Howard J. Fick, 615 North Eleventh st., Reading, Pa.

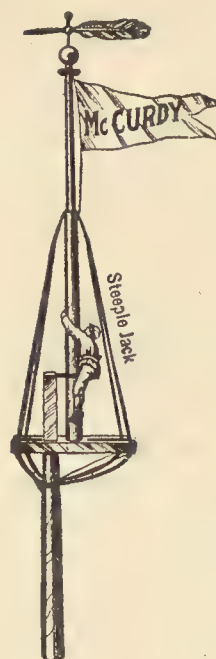
Church (alt. and add.), Tamaqua, Pa. \$15,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. John's Reformed Church, Tamaqua, Pa. Brick, 2 stories, 45x100 feet, slate roof, steam heating, electric lighting. Contract awarded to A. L. Graff, Tamaqua, Pa.

Store and Residence, Reading, Pa. \$3,000.

Architect, William A. Fink, 426 Franklin st., Reading, Pa. Owner, Max Rosenbaum, Reading, Pa. Brick, stone trimmings, 3 stories, 18x70 feet, tin roof, hot air heating. Contract awarded to Howard J. Fick, 615 North Eleventh street, Reading, Pa.

Apartment House, Reading, Pa. \$4,000. Architect, William A. Fink, 426 Franklin st., Reading, Pa. Owner, George E. Tyson, 335 South Fifth street, Reading, Pa. Brick, stone trimmings, 3 stories, tin roof, hot water heating, gas and electric lighting, tile work. Contract awarded to Howard J. Fick, 615 North Eleventh street, Reading, Pa.

Residence, Hamburg, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owner, William B. Burkey, Hamburg, Pa.



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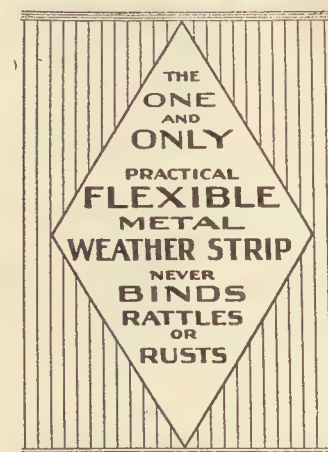
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Philadelphia

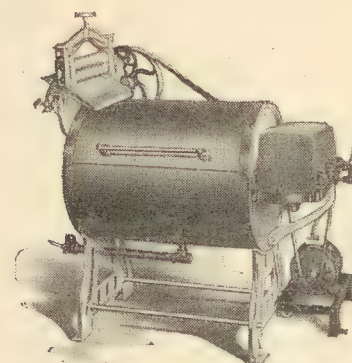
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Stone, 2½ stories, 42x32 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Charles H. Schlegel, Mt. Penn, Pa.

Residence, Bethlehem, Pa. \$23,000. Architect, William Michler, Easton, Pa. Owner, J.

E. Mathews, Bethlehem, Pa. Stone, 2½ stories, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to W. F. Danzer & Co., 518 Seneca street, Bethlehem, Pa.

Residence, Easton, Pa. \$9,000. Architect, William Michler, Easton, Pa. Owner, W. B. Bryan, Easton, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hot air heating, electric lighting, hardwood floors. Contract awarded to William Snyder, Easton, Pa.

Parish House, Yardley, Pa. Architects, Hancock & Hokanson, Bailey Building, Philadelphia. Owner, St. Andrew's Episcopal Church, Yardley, Pa. Stone, 1 story, 32x67 feet, shingle roof, electric lighting. Contract awarded to Joseph T. Taylor, Langhorne, Pa.

School, East Greenville, Pa. \$30,000. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owner, School Board, E. E. Erb, Secretary, East Greenville, Pa. Brick and brownstone trimmings, 2 stories, 81x57 feet, Star, Bangor or Washington vein slate roof, slate blackboards, water proofing, reinforced concrete floors (plenum system of heating and electric work reserved). Contract awarded to Alexander Chambley, 243 South Tenth street, Philadelphia.

Bank Building, Boyertown, Pa., \$30,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Boyertown National Bank, E. K. Schultz, President, Limestone, 1 story, 40x70 feet, slag roof, steam heating, electric light, concrete fireproof floors, metal lath, etc. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

Residence, Melrose Park, Pa. \$5,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Robert N. Whinney, care of F. D. Kramer & Sons, Sixteenth and Spring Garden streets. Stone and plaster, 2½ stories, 43x29 feet and 16x12 feet, tile roof, canvas roof, hot water heating, electric lighting, white oak floors, tile work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Stable and Garage, St. David's, Pa. Architects, Boyd, Coney & Abel, northeast corner Fifteenth and Walnut streets, Philadelphia. Owner, Charles S. Walton, Third and Vine

streets, Philadelphia. Stone, 2½ stories, 94x50 feet, tile roof, electric lighting (heating reserved). Contract awarded to J. D. Lengel, Wayne, Pa.

Theatre, Store and Flats, Pottstown, Pa. \$30,000. Architect, E. F. Bertollett, 1614 Cherry street, Philadelphia. Owner, H. D. Saylor, Pottstown, Pa. Brick and terra cotta, 3 stories, asbestos roof, steam heating, electric lighting, metal lath. Contract awarded to F. H. Keiser & Co., Pottstown, Pa.

Hospital, Carlisle, Pa. Architect, E. F. Bertollett, 1614 Cherry street, Philadelphia. Owner, Carlisle Hospital, Carlisle, Pa. Stone, 3 stories, 7'x125 feet, slate roof, steam heating, electric lighting, metal lath. Contract awarded to James Porter, Carlisle, Pa.

Store, Hall, Office and Apartments, Chester, Pa., \$25,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. G. Price, Jr., Chester, Pa. Brick, 3 stories, 40x42 feet and 16x60 feet, slate roof, Steam heating, electric lighting, metal lath. Contract awarded to George Hogg, 1634 Sansom street, Philadelphia.

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NEW JERSEY Construction News

Y. M. C. A., Atlantic City, N. J. Architects, Stout & Riebenack, Bartlett Building, Atlantic City, N. J. Owner, Colored Branch, Y. M. C. A., Atlantic City, N. J. Brick, 1 story, slag roof, electric lighting. Architects have received bids.

Residence, Atlantic City, N. J. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Samuel C. Jones, 1318 Atlantic avenue, Atlantic City, N. J. Brick, 2½ stories, 18x45 feet, slate roof, hot water heating, gas and electric lighting, tile work. Owner taking bids. H. G. Seull, Sheen Building, Atlantic City, N. J., is figuring.

Parish House, Chews, N. J. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, St. John's Church, Chews, N. J. Concrete block and frame, 1 story, 24x50 feet, shingle roof, hot air heating. Plans in progress.

Residence, Newark, N. J. Architect, E. T. Boggs, 136 South Fourth street, Philadelphia. Owner, Herbert Boggs, Kinney Building, Newark, N. J. Brick, 2½ stories, 36x40 feet, slate roof, hot water heating, gas and electric lighting. Owner is ready for bids.

Cottage, Ventnor, N. J. \$4,000. Architect,

Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, name withheld. Brick and stucco, 2 stories, 34x25 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress.

Theatre, Store and Apartments, Burlington N. J. Architect, H. A. Brown, Beverly, N. J. Owner, J. Ellis, Burlington, N. J. Brick, 2 stories, 75x200 feet, slag roof, hot water heating, electric lighting, tile and composition floors. Architect taking bids. George W. Shaner, Palmyra, is figuring.

Residence, Phillipsburg, N. J. \$5,000. Architect, E. H. Wenzelberger, Easton, Pa. Owner, James S. Seigfried, Phillipsburg, N. J. Hollow tile and stucco, 2½ stories, 32x38 feet, asbestos shingle roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

Grinding House, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch st., Phila. Owner, Victor Talking Machine Co., Camden, N. J. Brick and concrete, terra cotta, 6 stories, 80x200 feet, slag roof, electric lighting, steam heating, damp proofing, fire proofing, safety

treads, metal and sash frames. Architects have received bids.

Rectory, Riverside, N. J., \$10,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owners, St. Peter's R. C. Church, Rev. Joseph Keuper, Riverside, N. J. Brick, stone trimmings, 3 stories, 40x36 feet, wing 16x12 feet, slag roof, hot water heating, gas and electric lighting. Plans in progress.

Infirmary Building, Glen Gardner, N. J., \$30,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey State Tuberculosis Sanitarium. Hollow tile and stucco, 2½ stories, 125x65 feet, slate roof, steam heating, electric lighting, metal lath. Plans in progress.

Employees Cottage, Glen Gardner, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey State Tuberculosis Sanitarium. Brick, 2½ stories, 65x25 feet, slate roof, steam heating, electric lighting. Plans in progress.

Residence (remodeling), Atlantic City, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, H. Kendall Reed, Atlantic City, N. J. Frame, 3 stories, slate roof, hot water heating, electric lighting. Plans in progress.

Residence, Flemington, N. J., \$6,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, E. B. Allen, Flemington, N. J. Hollow tile and stucco, 2½ stories, 40x30 feet, shingle roof, heating undecided, gas and electric lighting, hardwood floors. Architects taking revised bids. The following are figuring: Scott & Day, 232 South Olden street; I. Harper Clayton, American Mechanics' Building; Burton & Burton, American Mechanics' Building, all of Trenton, N. J.

Residence, Burlington, N. J., \$12,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Brick, 2½ stories, 30x45 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors. Revised plans in progress.

Bungalow, Magnolia, N. J., \$3,500. Architect, C. Henry Wilson, 1130 Lombard street, Philadelphia. Owner, W. H. Evans, 1931 Bainbridge street, Philadelphia. Stone and timber, 1½ stories, 36x59 feet, asbestos shingle roof, steam heating, combination lighting, hardwood floors, tile work. Owner taking bids, due June 20th.

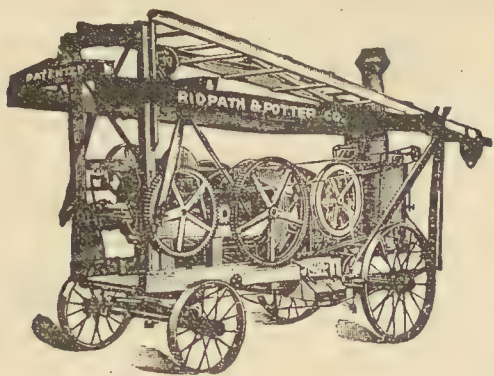
Parish House, Woodbury, N. J. Architect, J. Franklin Stuckert, 112 South Forty-third street, Philadelphia. Owners, Christ Church, Woodbury, N. J. Frame and plaster, 2 stories and basement, 56x58 feet, slate and slag roof (heating and lighting reserved), damp-proofing. Architect taking revised bids, due June 23rd. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street, Philadelphia; A. Bottoms & Sons Co., 41 South Fifteenth street, Philadelphia; J. E. Best, Woodbury, N. J.; J. W. Draper Company, 1445 Mount Ephraim avenue, Camden, N. J.

New Jersey

Contracts Awarded

Bank Building, Ventnor, N. J. \$25,000. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Ventnor City National Bank, Ventnor, N. J. Brick, stone trimmings, 3 stories, 34x72 feet, slag roof, hot water heating, gas and electric lighting, tile work, bank fixtures. Contract awarded to Clayton Shappell, Ventnor, N. J.

Chapel, Magnolia, N. J. Architect, A. M. Moses, 136 South Fourth street, Philadelphia. Owner, Christ Church, Magnolia, N. J. Frame, 1 story, shingle roof, hot air heating. Contract awarded to William Snuffin, Magnolia, N. J.



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Hospital, Millville, N. J. Architects, Guy King Co., 1513 Walnut street, Philadelphia. Owners, Millville Hospital, Millville, N. J. Brick, hollow tile and stucco, 2½ stories, 70x36 feet, Chapman slate and canvas roof, electric lighting, Webster system of heating, metal lath (screens, weather strips, dumb-waiter and elevator, garbage incinerator and vacuum cleaning plant reserved). Contract awarded to W. A. Richman, Moorestown, N. J.

Factory, Camden, N. J. Architects, Borzner & Wood, 721 Walnut street, Philadelphia. Owner, T. S. Pancoast, Third and Market sts., Camden, N. J. Brick, 2 stories, 30x45 feet, slag roof, electric lighting. Contract awarded to J. W. Draper, 1445 Mt. Ephraim avenue, Camden, N. J.

School, Elmer, N. J. \$18,900. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, Board of Education, care of E. Bostwick, Elmer, N. J. Brick, 2 stories, 51x80 feet, slate roof, steam heating, electric lighting, safety treads. Contract awarded to F. Roe Searing, Perry Building, Philadelphia.

Home, Longport, N. J. \$50,000. Architects, Hewitt, Granger & Paist, Bullitt Building, Philadelphia. Owner, Bamberger Home, Atlantic City, N. J. Hollow tile and plaster, brick, 2 stories and basement, 120x185 feet, asbestos shingle roof, marble interior, hot water heating, electric lighting, water proof-

ing. Contract awarded to Thomas Little & Sons, 1723 Moravian street, Philadelphia.

Residence, Palmyra, N. J. Architect, Chas. R. Peddle, 156 South Fourth street, Philadelphia. Owner, T. E. Steele, Palmyra, N. J. Hollow tile and stucco, 2½ stories, 38x27 feet, wing 18x18 feet, shingle roof, electric lighting, hot air heating, hardwood floors. Contract awarded to Louis F. Loudon, River-ton, N. J.

Residence (alt. and add.), Riverton, N. J. Architect, C. R. Peddle, 136 South Fourth st., Philadelphia. Owner, Stanley Groves, Riverton, N. J. Frame, 3 stories, slate roof, Warren-Webster System heating, electric lighting, hardwood floors. Contract awarded to H. L. Brown, 1714 Sansom street, Philadelphia.

Store House, Morris Plains, N. J., \$15,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Insane Asylum. Brick, 2½ stories, 46x85 feet, slag roof, electric lighting, four elevators. Contract awarded to James Lyons, Morris-town, N. J.

Normal School (alts.), Trenton, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State Board of Education, Dr. Gren, Trenton, N. J. Brick, consists of new iron stairs, slate treads, toilet fixtures, composition floors. Contract awarded to S. W. Mather & Son, American Mechanics' Building, Trenton, N. J.

Miscellaneous Construction News

High School (add.), Stamford, Conn. Architects, Boring & Tilton, 32 Broadway, New York City. Owner, Board of Education, Stamford, Conn. Brick and stone, fire proofing, 3 stories and basement, 90x104 feet, slag and slate roof, metal lath, metal doors and trimmings, damp proofing, namel brick (heating and lighting reserved). Owners taking bids due June 22nd. J. E. & A. L. Pennoek, Land Title Building, Philadelphia, are figuring.

Factory, Detroit, Mich. Architects, Milner & Eisen, Detroit, Mich. Owners, Massnick-Phipps Co., Detroit, Mich. Brick and concrete, 3 stories, 60x247 feet, slag roof, steam heating, electric lighting, metal lath, elevators, metal sash and frames, metal doors and frames, water proofing. Architect taking bids due June 12th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Factory Buildings (2), Syracuse, N. Y. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner, New Progress Gear Co., Syracuse, N. Y. Brick, steel and concrete. Plans in progress.

Residences (4), Wilmington, Del. \$20,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 3 stories, 25x40 feet each, tin and slate roof, steam heating, gas and electric lighting, hardwood floors, metal lath, tile work. Architect has received bids and will soon award contract.

Church, Wilmington, Del. Architects (as-

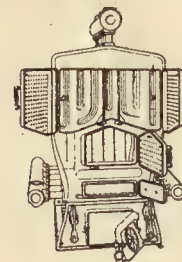
sociated), Frederick Mann, Minneapolis, Minn., and Brown & Whiteside, duPont Building, Wilmington, Del. Owner, Emanuel P. E. Church, Wilmington, Del. Stone, 1 story, slate and tile roof, steam heating, electric lighting. Plans in progress.

Residences (2), 1121-23 East Thirteenth st., Wilmington, Del. \$6,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick, stone trimmings, 2½ stories, 15x48 feet each, tin and slate roofs, steam heating, electric lighting. Plans completed.

Store Building, Detroit, Mich., \$1,000,000. Architects, Smith, Hinchman & Gryles, Detroit, Mich. Owner, J. L. Hudson, Detroit, Mich. Brick, steel and concrete, 12 stories, 100x150 feet, asbestos roof, steam heating, electric lighting, composition floors, metal ceiling, metal doors and trimmings, steel casement, damp proofing, waterproofing. Architects taking bids, due June 25th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Machine Shop, Baltimore, Md. Architect, Otto Simonson, Baltimore, Md. Owners, Crown Cork and Seal Company, Baltimore, Md. Brick, steel and concrete, 3 stories and basement, 170x210 feet, slag roof, safety treads, steel rolling doors. Architect taking bids, due June 18th. The following are figuring: Cramp & Co., Denckla Building, and Irwin & Leighton, 126 North Twelfth street, of Philadelphia.

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Notice to Contractors.

Sealed proposals will be received by the Vineland School Board until Wednesday, June 24th, 1914, at 8 P. M., for the erection and completion of the new Vocational School Building, at that place.

All proposals shall be addressed to Vineland School Board, care of Edgar R. Jones, High School Building, Vineland, N. J.

Plans and specifications are on file and can be seen at the Architect's offices, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia, Pa.

THE FORTUNATE MR. VACUUM.

There is a theatrical magnate in New York who is up on the needs of the tired business man, but a little bit shy on general education. In his office they were discussing the prevalent hard times—theatrical and otherwise.

"Well," he said, "there's one guy in this town that I envy. He's busy all the time. Everywhere I go I see people using his machines."

"Who's that?" inquired one of the company.

"Why, this guy Vacuum, that makes all them patent cleaners!"—"Saturday Evening Post."

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Roland Hutner (O), 402 Real Estate Trust Building. Cost, \$10,400. Four dwellings, stone, 2 stories, 16x54 feet, Fifty-ninth street and Lansdowne avenue.

Mrs. Kate Bony (O), Eighty-second street and Bartram avenue. G. F. Heath (C), Eighty-seventh street and Bartram avenue. Cost, \$1,600. One dwelling, brick, 2 stories, 17x37 feet, Eighty-seventh street and Bartram avenue.

C. Kiely (O), 312 West Seymour street. Cost, \$6,800. Four dwellings, brick, 2 stories, 15x27 feet. Cost, \$2,200. One dwelling. Cost, \$14,000. Twelve dwelling, Richmond and Overington streets.

Walter Smith (O), 5263 Ridge avenue. Cost, \$3,300. Two dwellings, brick, 2 stories, 16x44 feet, 364 Righter street.

Bourne & Collins (O), 5441 Haverford avenue. Cost, \$22,500. Nine dwellings, brick, 2 stories, 15x28 feet, Edgemont street and Haddington avenue. Cost, \$3,800. One dwelling.

M. Kirchner (O), 421 Snyder avenue. Cost, \$2,000. Two dwellings, brick, 2 stories, Twenty-fifth street and Allegheny avenue.

Robert Leport (O), Hermit lane. E. R. Clark Co. (C), Walnut lane. Cost, \$5,300. One dwelling, brick, 3 stories, 25x40 feet, 534 Walnut lane.

E. H. Sturts (O), 2614 Ridge avenue. Cost, \$19,200. Six dwellings, brick, 2 stories, 16x52 feet, Wyoming avenue and Camac street.

J. Y. T. Adair (O), 6900 Second street pike. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x56 feet, Twelfth street and Somerville avenue.

C. B. McGuire (O), 1314 Arch street. Cost, \$25,000. Apartment house, brick, 4 stories, 29x49 feet, Cresheim street and Mt. Airy avenue. Cost, \$50,000. Two apartments.

P. Yoskin (O), 7717 Brewster avenue. Cost, \$18,00. Ten dwellings, brick, 2 stories, 14x34 feet, Eighty-third street and Lesser avenue.

F. J. Gillespie (O), 5008 Westminster avenue. Cost, \$4,000. Garage, brick, 2 stories, 32x66 feet, 892 North Fiftieth street.

G. Chicchitti (O), 910 South Ninth street. V. Cerasoli (C), 1231 Christian street. Cost, \$4,950. Store and dwelling, brick, 3 stories, 16x53 feet, 910 South Ninth street.

J. J. Hurley (O), 503 East Monastery avenue. Cost, \$2,600. Dwelling, brick, 2 stories, 14x46 feet, Cresson and Rensdale streets.

Morris Realty Co. (O), Parkway Building. J. A. Bawer Co. (C), Heed Building. Cost, \$100,000. Theatre, brick, 1 story, 139x225 feet, Fifty-ninth and Market streets.

Alexander Ferguson (O), 5701 Kensington avenue. Cost, \$65,100. Thirty-one dwellings,

brick, 2 stories, 16x34 feet, Fifty-sixth street and Greenway avenue.

S. Knast (O), 1318 Frankford avenue. E. J. Knast (C), 1204 Day street. Cost, \$6,000. Three dwellings, brick, 2 stories, 15x25 feet, Day and Thompson streets.

D. H. Carstairs (O), 254 South Third street. W. H. Eddleman & Sons (C), 453 Green lane. Cost, \$27,000. Residence, stone, 3 stories, 58x36 feet, School lane and Henry avenue. Cost, \$4,300. Garage.

W. J. Mitchell (O), Seventy-seventh street and Lyons avenue. Cost, \$4,200. Two dwellings, brick, 2 stories, 16x50 feet, Seventy-seventh street and Madison avenue.

A. M. Zane (O), Land Title Building. Cost, \$92,000. Twenty-three dwellings, brick, 2 stories, 16x54 feet, Wyoming avenue and Old York road.

G. Smith (O), 1811 Church street. Cost, \$1,500. Dwelling and store, brick, 2 stories, 16x50 feet, 1819 Church street. M. Schnerer, 4632 Hedge street.

Schreiber & Sternhauser (O), 5424 North Fifth street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x55 feet, Fifth and Tabor road.

W. J. Wiedner (O), 629 West Dauphin street. Cost, \$3,000. Dwelling, brick, 2 stories, 16x52 feet, Camac and Champlost avenue.

H. W. Cearborough (O), 522 Walnut street. Cost, \$31,000. Ten dwellings, brick, 2 stories, 16x40 feet, 1150 to 1168 Wagner avenue.

Mrs. H. Stock (O), Tacony, Pa. H. A. Leister (C), 1808 Harrison street. Cost, \$1,800. Dwelling, brick, 2 stories, 14x40 feet, Comley and Cottage streets. Cost, \$3,400. Two dwellings.

A. A. Belfield (O), 7231 State road. Cost, \$1,950. Dwelling, brick (2 stories, 16x40 feet, State road and Cottman street.

Thomas Janney (O), 315 North Third street. Irwin & Leighton (C), 126 North Twelfth street. Cost, \$115,000. Manufacturing building. Brick, 3 stories, 860x197 feet, Van Kirk and Delaware River.

Bourne & Collins (O), 5441 Haverford avenue. Cost, \$37,500. Fifteen dwellings, brick, 2 stories, 15x28 feet, Edgewood and Haddington avenue.

E. C. Fogg (O), Germantown. Samuel Harting (C), 20 East Johnson street. Cost, \$9,000. Residence, stone, 3 stories, 30x42 feet, 48 West Upsal street.

W. C. Bull (O), 4922 North Fairhill street. F. J. Baltz (C), 4923 North Lawrence street. Cost, \$3,200. Store and dwelling, brick, 3 stories, 16x58 feet, 4932 North Fifth street.

\$7,600. School, Thirtieth and Jordan streets. Cost, \$4,675. School, Sixteenth and Moore streets.

F. F. Acker (O), Manheim street. I. A. Dunkelberger (C), 71 East Herman street. Cost, \$5,500. Dwelling, Manheim street.

J. P. Malvey (O), 407 Drexel Building. Joseph Levin Co. (C), 1430 South Sixth street. Cost, \$13,500. Church.

H. C. Dahl, 231 South Eighth street. Cost, \$4,000. Factory, 233 South Third street.

Mrs. C. E. Dang (O), 2013 Delancey street. J. Duncan (C), 920 Walnut street. Cost,

\$7,000. Dwelling, 2013 Delancey street.

R. W. Olhausen (O), 1509 Arch street. J. A. Codori (C), 1235 Arch street. Cost, \$1,200. Office building, 1509 Arch street.

M. Cylinder (O), 521 Mifflin street. Cost, \$1,200. Store and dwelling, 1510 Moyamensing avenue.

K. Schveltz Co. (O), Eighty-eighth street and Eastwick avenue. Cost, \$5,000. Mill, Eighty-eighth street and Eastwick avenue.

S. Benheim (O), Green lane. W. Duva (C), 324 Harvey street. Cost, \$1,000. Garage, Silverwood and Krams avenues.

St. James R. C. Church (O), Thirty-eighth and Chestnut streets. H. J. Murphy (C), 1619 Sansom street. Cost, \$1,850. Church, Thirty-eighth and Sansom streets.

Smith Bros. (O), Allegheny avenue and Oram street. Cost, \$2,000. Factory.

E. O'Neill (O), 4225 Frankford avenue. Thomas Summerfield (C), 4773 Worth street. Cost, \$2,500. Dwelling, 4665 Leiper street.

M. Dell Cotto (O), 927 Bainbridge street. Frank Gentile (C), 725 Kater street. Cost, \$2,000. Store and dwelling, 830 Bainbridge street.

H. Kennedy (O), 1300 Wood street. W. Snyder (C), 2146 North Camac street. Cost, \$1,000. Store and office, Eleventh and Spring Garden streets.

S. Boyajrain (O), 645 South Sixtieth street. A. M. Mahjanlian (C), 126 South Sixtieth street. Cost, \$4,000. Dwelling and store, Sixtieth and Thompson streets.

E. E. Bratton (O), 5034 Cedar avenue. Cost, \$3,500. Apartments, 441 Locust street.

Mellon Estate (O), Bryn Mawr, Pa. G. C. Doutherty (C), 1725 Ludlow street. Cost, \$2,000. Offices, 1621 Sansom street.

J. N. Wilkins (O), 630 Bourse Building. F. E. English (C), 1608 North Carlisle street. Cost, \$4,000. Warehouse, 112 North Front street.

Philadelphia Rapid Transit Co. (O), Eighth and Dauphin streets. Cost, \$2,000. Offices, Sixteenth and Jackson streets.

Alva Carpet & Rug Co., Oxford and Hedge streets. Cost, \$1,500. Manufacturing building, Oxford and Hedge streets.

E. J. Cox, Jr. (O), Franklin Bank Building. Cost, \$2,000, Rooming house, 1722 Arch street.

J. A. Dever (O), 100 Rector street. Cost, \$1,500. Garage, 104 Rector street.

North Bros. Manufacturing Co. (O), American street and Lehigh avenue. William Steele & Sons Co. (C), 1600 Arch street. Cost, \$11,000. Manufacturing Building, brick, 5 stories, 32x33 feet, American street and Lehigh avenue.

F. Mark (O), 2820 North Twenty-first st. Cost, \$5,000. Garage, Woodstock and Somerset streets.

H. J. Rittenhouse (O), Fifty-second street and Hazel avenue. W. S. Frane (C), 835 Holly street. Cost, \$2,500. Store and dwelling, 651 South Sixtieth street.

Oak Lane Presbyterian Church (O), Eleventh street and Oak lane avenue. T. C. Trafford (C), 1613 Sansom street. Cost, \$25,000. Church, Eleventh street and Oak lane avenue.

St. James Lutheran Church (O), Nineteenth and Wharton streets. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$1,800. Church, Nineteenth and Wharton streets.

E. Martin (O), Fifteenth street and Castle avenue. D. Henon (C), 1425 Ritner street. Cost, \$2,000. Store and dwelling, 1418 South Fifty-second street.

Standard Dental Manufacturing Co. (O), 2411 Norris street. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$1,800. Factory, 2411 Norris street.

Keystone Supply Co. (O), 945 North Ninth street. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$4,500. Storage warehouse, 945 North Ninth street.

W. C. Ross (O), Cumberland and American streets. Specialty Eng. Co. (C), Emerald and

Alterations and Additions

Germantown Friends' School (O), Germantown, Phila. W. C. Wright (C), 22 Harvey street. Cost, \$2,350. Cottage, Germantown.

Wood & Hooker (O), Front and Palmer sts. Joseph R. Irwin (C), Hancock street and Montgomery avenue. Cost, \$1,800. Manufacturing Building, Front and Palmer streets.

Board of Education (O), City Hall. E. C. Durell (C), 1713 North Twenty-fourth street. Cost, \$2,050. School, Twenty-third and Federal street. Cost, \$2,486. School, Seventieth street and Woodland avenue. Cost, \$3,260. School, Seventeenth and Tasker streets. Cost,

Cornwall streets Cost, \$4,850. Coal pocket, Cumberland and American streets.

Harry Crowther (O), Ontario and Rorer streets. J. W. Mortimer (C), 3024 E street. Cost, \$1,500. Manufacturing plant, Ontario and Rorer streets.

German Hospital (O), Eighteenth street and Girard avenue. C. P. Biggins Co. (C), Eighteenth and Harlan streets. Cost, \$500. Hospital, Eighteenth street and Girard avenue.

Berg Bros. (O), Tenth and Market streets. Lam Building Co. (C), 1001 Wood street. Cost, \$500. Store, Tenth and Market streets.

F. Y. Tatnall (O), 1723 North Willington street. H. P. Schneider (C), 3713 Old York road. Cost, \$1,100. Store, 1536 Columbia avenue.

M. Zideman (O), 1324 South Fourth street. J. Neiman (C), 1029 Jackson street. Cost, \$2,-

500. Dwelling and store, 1913 South Seventh street.

F. A. McClatchey (O), Twenty-ninth and Master streets. Bright & Heller (C), 536 Real Estate Trust Building. Cost, \$3,000. Garage, 2726 Thompson street.

Union Petroleum Co. (O), 135 South Second street. Cost, \$5,500. Manufacturing building.

Archbishop E. F. Prendegast (O), Eighteenth and Race streets. J. F. Murphy (C), 1619 Sansom street. \$5,000. Church, Eighteenth and Race streets

S. Kaplan (O), 238 Greenwich street. Dorsey & Smith (C), 111 North Seventh street. Cost, \$500. Dairy, 238 Greenwich street.

Weightman Estate (O), 1524 Chestnut st. J. S. Talley (C), 1931 Market street. Cost, \$1,500. Dwelling, 420 North Preston street.

College Club (O), Thirteenth and Spruce streets. H. E. Grau (C), 1709 Sansom street. Cost, \$800. Club.

GAS APPLIANCES FOR MODERN HOMES

It has not yet been very generally conceded, probably because the matter has not received much attention from the male portion of the community, at any rate until very recently, that woman for many years has been greatly enlarging her sphere of usefulness, while man has practically remained stationary, relinquishing many of his former prerogatives to woman without a struggle, realizing her greater ability to cope with the situation. This has no reference whatever to the suffrage question, but is dealing solely with domestic economy. Woman has surely become the "spender of the world," and this is said in no sense as a reflection, but rather in commendation, for her responsibilities are many and important. She has her own personal home duties to perform, and by her expenditure of the income of the family dictates the production of the world, whether it be a wig of lurid hue or the latest creation in gas ranges. It is she who eventually decides the kind, quality and price of everything used by mortal man. It is rarely indeed that a man buys anything for himself or for his family without the deciding voice of his wife, and what man would attempt to furnish his house, or even select the house itself, without her sanction and advice? And so on, "ad infinitum." But we must get down to burning gas.

The above being an indisputable fact, every convenience must be provided in the home that will conserve the woman's time and energy, and there are no greater conveniences than the various gas appliances designed for home use; in fact, they have really become necessities, and no home is now considered as being well equipped that is not provided with at least a gas cooker of some sort, even if only a two-burner flat affair, and a water heater, if gas is available. In the "natural" gas belt one can rarely find any other kind than gas cooking and heating appliances, and, in fact, it is only in remote country districts now that gas cannot be obtained, and even there, in rapidly increasing

numbers the houses are provided with individual gas-making plants for the production of acetylene or gasolene gas. "Blaugas"—compressed gas from the hydrocarbons stored in very strong bottles—requires no plant at the place of consumption, merely pressure-reducing mechanism. Not any of the plants or appliances for home use are very expensive in first cost nor in operation, consequently there can be no real good reason why the modern house should not be fully equipped in that respect.

No one can realize the great saving in time and energy by the use of modern gas appliances until they have tried them, and it is very certain no housekeeper would ever relinquish them after once using them, if it could possibly be avoided. A gas stove, for instance, is so convenient for preparing a hurried early breakfast when the coal range doesn't work well, or for preparing all the meals during the hot summer months, when the coal range works only too well, and makes the house unbearably hot, besides exhausting the good housewife; and it is such a blessing to have an abundant supply of hot water always on tap, without the trouble and expense of maintaining a roaring hot fire in the range. There are so many urgent occasions for the use of hot water, day and night, and at all seasons, that it is surprising any house should be without a gas water heater. Heating or cooking by electricity at the prices charged at present for the electric current and for the appliances is practically impossible in the home, while gas, on the contrary may be obtained at very low cost, and the appliances made to-day are wonderfully efficient.

When selecting a gas cooker or heater it is better to select one producing a blue flame, if possible. This is obtained by the mixture of gas and air on the principle of the Bunsen burner. It consumes much less gas, gives greater heat, secures more perfect combustion, and consequently gives off little or no

(Continued on page 390.)

How do you heat water in your home?

THE thoughtful householder recognizes only one system—instant gas heated water as provided by the

RUUD

Instantaneous Automatic Water Heater

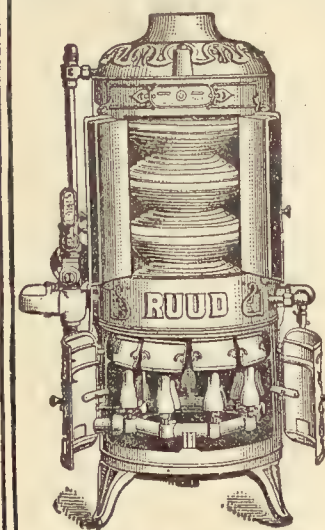
With the RUUD installed in the basement, if you want a cupful of hot water for shaving, you simply turn the faucet. The



RUUD immediately responds and no more gas is burned except what is required to heat the actual amount drawn. Closing

the faucet automatically shuts off the gas. This is true of every faucet in the house.

Let us explain in detail the economy and convenience of this marvelous device.



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Irving Dillon.....Editor

PHILADELPHIA, PA., JUNE 17, 1914.

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Editorial Comment

Writing in the pages of the "Ohio Architect, Engineer and Builder," on the "Many Virtues of Terra Cotta," Mr. W. S. Lloyd points out a number of qualities peculiar to this medium which go far to explain its growing popularity as a modern structural material. One of the most novel of these qualities is the property possessed by architectural terra cotta of resisting the soot and grime of smoke-smudged industrial centers. Mr. Lloyd cites several examples of this soot-resisting propensity on the part of terra cotta in the city of Cleveland, Ohio. "From the deck of a Lake Erie steamer, nearing the city of Cleveland from Detroit," writes Mr. Lloyd, "a passenger discovers through the mist three clear streaks of light rising above the horizon, and while the gray outlines of other forms are visible; this strange whiteness demands immediate attention.

"What can have produced so strange an illusion among so much gloom?" the stranger ponders.

"Those are the white glazed walls of the Rockefeller Building," comes the quick reply of a steamer officer. "See how they shine in the morning sun."

"Again on a sunlit morning, the writer chanced to glance down a popular Cleveland thoroughfare, at the foot of which stood a public building whose sand stone front is already hideously defaced by the smoke of numberless locomotives and industrial smoke stacks. The expensive carvings and statues which are supposed to adorn the structure are already lost and rendered grotesque by the daily deposits of lamp black with which they were overlaid. But at the middle distance in the picture, halfway between the public square and the new Cuyahoga County Court House, there glistened in the sun fourteen stories of superb whiteness,—the newly washed and polished home of the Brotherhood of Locomotive Engineers. Almost as though it had been freshly cooled from the molten mass of clay and fire, this splendid front presented a vivid contrast to the surrounding gloom."

* * *

That this quality of terra cotta—its ability to withstand the deteriorating deposits of soot and grime incident to great manufacturing centers, is being grasped by architects is evidenced in the fact that probably 50 per cent. of the visible material along New York's down town sky line is now composed of this material.

No other medium is so easily made clean. Soap and water is everything needed to bring a glazed terra cotta building back to its pristine freshness.

Another advantage claimed for terra cotta is that it is absolutely proof against fire. Burned for two weeks, in the process of making, at a temperature which approximates 2,300 degrees Fahrenheit, there is small dan-

ger of this product of fire ever yielding to the element out of which it issued. Water cannot affect it for the easily understood reason that being a glazed, non-porous, compactly cohesive mass, it is stoutly impervious not only to water, but to moisture and dampness as well.

The buildings which offered the most marked resistance to the earthquake shocks in San Francisco, Mr. Lloyd writes, "were almost without exception edifices of terra cotta and steel. This light fabric, weighing sixty-five pounds to the cubic foot, as against the hundred and twenty-five pounds of stone, was by its very lightness better able to withstand the shock.

* * *

"The key to the beauty, durability and general attractiveness of terra cotta," writes Mr. Lloyd, "is of course the glaze. It is the test of fire that has given this unique quality to the clay and there are thus imposed upon it certain physical limitations that architects and building owners desiring its use should understand. There is a limitation in the size of pieces and forms but at the present time all the leading manufacturers maintain complete construction departments where the architect's drawings are redrawn to terra cotta shrinkage scale, showing the exact size and location of each piece and its attachment to the frame. In this manner, the architect, by placing himself in the hands of a reliable manufacturer who is willing to accept the responsibility, can relieve himself of much trouble and anxiety."

"The shrinkage thus mentioned is more consistent, declares an expert on the subject, than would naturally be supposed, in view of the fact that the terra cotta is burned for two weeks at a temperature which at the apex approximates 2,300 degrees Fahrenheit.

"It is, in fact, almost precisely one inch to the foot. Generally, this is met by making the pieces slightly larger than the plan and then grinding them down to scale.

"These are details that the architect may easily learn to master. The general advantages far out-weigh the lesser physical obstacles."

* * *

A peculiarity of terra cotta is that it never wears out. There is nothing in it to disintegrate, nothing to decay, nothing to crumble or to succumb to the atmospheric changes so ruinous to older materials. Terra cotta lasts indefinitely. It is the most durable of mediums.

All of which is worth noting, don't you think? A material that is fire-proof, damp-proof, water-proof and to some extent earthquake-proof; that resists the smoke nuisance, retains its beauty under the depressing attacks of soot and grime; that is light, easy to handle, artistic, strong and durable, is worth a line or two in the way of boost.

Hence this little review of Mr. Lloyd's article which we here publish without apology.

Architectural terra cotta, in the judgment of "The Guide," is destined to share with concrete a commanding place among the materials of the coming and golden age in American architecture.

* * *

A recent address to the students of the Royal Institute of Art by the President, Mr. Reginald Bloomfield, contains some of the most happily phrased and wholesome advice we have yet seen offered to the novice out of the wisdom of the adept.

President Bloomfield took occasion to give the young architects one warning which should be brought to the ears of every young designer and that is as he put it "The danger of relying on draughtmanship rather than on solid design."

Mere draftsmanship, he insisted, is fascinating in itself—personally I appreciate it keenly—but I confess to feeling a little uneasy at the inordinate pains and skill that are now devoted to working up your designs into brilliant drawings. Recollect that the brilliancy of your drawings has no sort of bearing on the quality of the building, the creation of which is the *raison d'être* of all your drawings and designs.

But now that I have fired off this warning, let me add that I find here solid design as well, and that I am sanguine as to the future of architecture in this country, if only our students will continue to approach it as an art and devote to the mastery of its technique an application not less keen and persistent than that which is recognized as indispensable in the pursuit of the sister arts.

Referring to his own beginning and the manner in which he was fed upon the Neo-Gothic and the Romanesque, until it was finally borne in upon him "that the Columns, and the Lintel of Greece and the Arch of Rome were the real materials out of which an Architecture could be formed that would respond to modern conditions." He showed that he and his colleagues, by the steady logic of facts had each arrived at his own idiom, his own method of interpretation, which they now neither would or could change any more than the language that they use.

It is this "finding of himself" of attaining his own "metier" that constitutes the making of every architect of course, and while, as Mr. Bloomfield has put it the results are imperfect one step seems to have been made toward the attainment of genuine architecture and that is that we can no longer take up a style like a new coat.

* * *

Personally, I hold that behind every national architecture lie causes deeper than climate, or even material, social, and economic conditions, and they are what I have ventured to call elsewhere the root instincts of the race, instincts which assert themselves not in one style only or in another, but in all the varying methods of expression that succeed each other in a nation's history.

As to styles, don't worry about them. Each

man who has anything to say must have a style—that is a peculiar manner of his own. All I ask you to do it to study deeply and widely before you pronounce definitely and dogmatically for any method rather than another. Make quite sure that you really understand it, that is it not merely a court suit to be taken on and off but a part of your intellectual and emotional life.

Special qualities and endowments are necessary if a man is to become a good architect which are not necessary in the case, say, of what is generally called business. I do not want to discourage you by putting up an impossible standard; all I suggest is that there should be, to start with, some such aptitude as I have sketched in order that your labors may not be in vain, and result in disillusionment when it is too late to run back. That you students, winners of prizes and others, too, possess this aptitude I am convinced by the work of yours that I have seen.

This second condition that I give you is enthusiasm and faith in your art. Now I do not want to pitch the note too high. We all of us take up the art with the idea of making our livelihood by it, and our ideals have to be subordinated to the stern realities of life. The point I wish to make to you is that this, though of necessity a dominant motive, should not be the only one. The true artist, the true scholar, the true sportsman, have this in common; that they pursue their aims not for ulterior objects, nor for the profits that may accrue, not even for the reputation they may gain, but for love of the thing itself. The artist who studied his modelling with the implacable passion of Zola's tragedy, the scholar who stated with joy that he had found a rare Greek tense "lying snug in Polybius," the sportsman who takes his risks for the thrill of action at its tensest pitch, do these things for the joy of doing them. And this is the spirit with which, through good report and evil report, you students must keep in touch if your work is to live, if it is to be sincere and genuine expression of yourselves, if the tares are not to spring up and choke the seed that fell upon good ground in the far distant past.

* * *

Good advice—the kind of advice that heeded makes great architects.

RECENT TRADE LITERATURE.

B. Ridgway & Sons, of Philadelphia and Meshoppen, Pa., are sending out a most attractive booklet explaining just what "Protectile" is, how it is used and the points in its favor that make it superior for a variety of purposes to genuine tiling. The dominant merit about "Protectile" is that no matter how wet it may get it cannot become slippery. A natural product,—not a composition,—procurable in almost any size and in three attractive colors, neither harsh nor brittle like regular tile and easy to handle and to lay, "Protectile" is the finest product to be had for public buildings, walks, conservatories, lobbies or other places where exposure

to dampness is likely to make the ordinary tile or cement floor wet and dangerous. "Protectile" is non-slip. You couldn't slip on it if you tried. It is not expensive, is very attractive and is in large and growing demand among architects and builders who know its merits. A copy of the "Protectile" booklet will be mailed on request to parties interested. A feature of the booklet is a number of clever half-tone reproductions of important jobs on which "Protectile" has been installed.

* * *

The Monitor Bi-Loop Radiator Company, of Lancaster, Pa., installed a hot water heating system in the Hotel Brunswick, at Lancaster that heats eight floors, and required 7,000 square feet of Monitor Bi-Loop Hot Water Radiation. This is believed to be the highest building in the world successfully heated by hot water and amounts to a distinct triumph for the efficiency and adaptability of the Monitor Bi-Loop system. Among the advantages claimed for the Bi-Loop radiator is unusual fuel economy, perfect heating, noiseless operation, adaptability to buildings of any size and ease of installation. Architects and others interested in hot water heating at its best should write the Monitor Bi-Loop Radiator Company for particulars.

* * *

The May number of "The Mason Builder," the ably-edited and thoroughly progressive little house organ of the Charles Warner Company, of Wilmington, Del., lies before us as we write. Here's a little publication that is eminently worth while. Optimistic in its general tone, cheery, companionable and readable in every page, this little monthly talks lime with a first-hand knowledge that is refreshing to say the least. "Alca" lime is the special brand it talks so that it has, we must admit, a pretty good subject. Some excellent illustrations, a sprinkling of well-selected humor, a little good advertising philosophy and a whole lot of very readable lime talk make up a decidedly interesting little monthly visitor. We can mention a

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number of exchanges we'd a heap sight rather miss than "The Mason Builder."

* * *

An announcement sent out by Cates & Shepard, electrical and mechanical constructing engineers, with offices at 1516 Sansom street, conveys the information that Mr. Edward S. Clinch, Jr., formerly of the Lord Electric Company, of New York City, and the M. B. Foster Company, of New York and Boston, has connected himself with the Cates & Shepherd concern as Engineer and Superintendent. Mr. Clinch is an expert illuminating engineer, whose work on the Singer, American Express and other notable buildings of the country offers abundant testimony to his ability in this field.

VARNISHING A FLOOR.

A man I knew decided it was hardly worth while to hire a professional to do so simple a thing as varnish a floor, so he bought brush and a can of varnish, which he took home after his day's work was done, with the intention of applying it to the floor. Two or three hours later he called his wife to witness the artistic triumph.

"How does it look?" he asked.

"Fine," she replied, sniffing the air. "Fine. And a novel idea. How did you happen to think of it?"

"Wh—What—What's that?" he asked.

"Why didn't you use varnish?"

"Why—what—I did use varnish."

"Oh, no," said his wife, "you got hold of the wrong can. This is maple syrup."—"Sterling Spirit."

An advertisement should stick out like a sore thumb without being so sensitive.—"Novelty News."

GAS APPLIANCES FOR MODERN HOMES

(Continued from page 387.)

noxious odors; but, just the same, it is necessary to connect the flue from a gas range, or any other appliance using any considerable quantity of gas, to the chimney, in order that the products of combustion, composed largely of carbonic acid gas, shall be discharged to the outer air.

Of the various domestic gas appliances, and there are many of them, it is probable the range is of first importance. To be complete the range should be provided with two to four flat burners for boiling or frying, an inclosed broiler, and an oven with glass doors. A metal hood should extend over all, provided with a flue connection. It is an advantage to have the range raised on legs, as there is then no stooping to reach the ovens, quite an important item.

The next in importance is the water heater. There is usually a fairly good supply of hot water in the house during the winter months, particularly during the day; but at night, and during the warm weather, demands are made for hot water which cannot conveniently be met because the fire is out; but with the gas water heater all that is changed, and hot water is always on tap—"as quick as a wink," as one advertiser puts it. There are various styles to choose from—automatic and non-automatic—but nearly all are connected to the range boiler, as supplemental to the range.

The heaters consist essentially of a copper tube wound spirally inclosed in a metal jacket with the gas burners below. In most cases there is a small pilot flame which lights the main burner when the valve is opened, or, in the automatic type, when the faucet is opened. It then requires but a very few moments to secure an abundant supply of hot water.

While no one outside of the "gas belt" would think of heating the house by gas alone, with gas at eighty cents to one dollar and fifty cents a thousand cubic feet, there are many cases where a little additional heat is needed in very cold weather in one or more of the rooms, or where there is a room or hall not convenient to heat from the furnace or boiler. In such cases a gas heater is indispensable. These are made in so many different styles that it would require a lengthy article to describe them all. For comparatively small rooms the plain cylindrical type is usually sufficient, but for the larger rooms, such as living room, library, or dining room, something more elaborate is required. Ever since man in by-gone ages discovered a method of making fire, he has delighted in seeing the flames. This is a human trait evident in all ages, from the infant to the feeble old man; hence the popularity of the fireplace. Who does not enjoy sitting before a glowing fire in the fireplace on a long winter night, drawing fancy pictures in the flames, and dreaming, perhaps, of "what might have been," listening the while to a song or bit of instrumental music by some member of the family? To gratify this desire to see the flames, gas heaters are made in the form of

gas logs and fireplace heaters, which, with the aid of fractured crystal, ruby glass, and, in some cases, asbestos, give the flame effect. They are efficient, clean, safe—no sparks nor ashes—and sanitary.

The same heater is also made in the open type to be used where there is no fireplace. At least one make of gas log is provided with a water compartment to insure sufficient moisture in the atmosphere—a desirable feature. This is a radiator having a lower compartment containing water, which is transformed into steam by the gas jets beneath; it is provided with an air vent and a safety valve, and also a vapor pan for moistening the atmosphere. Its heating capacity is due to the extended steam radiating surface.

It often occurs that housekeepers, particularly in rural districts, are unable to readily dispose of their garbage and other refuse, especially in the summer. The most sanitary way is to burn it, but that is out of the question with the range, and almost as undesirable with the furnace or boiler in the winter, and, of course, impossible during the summer. This difficulty is solved now, however, by the introduction of the gas refuse incinerator, which may also provide the hot water by the waste heat. This is certainly the most sanitary and satisfactory method of disposing of our refuse material.

Another convenience is the gas laundry stove made by different manufacturers for heating the laundry irons, and at the same time the water for the wash; they are simple but efficient and inexpensive.

An excellent device is the gas iron, connected by rubber tube to the gas pipe. This is a thoroughly safe and satisfactory appliance; the iron is maintained always at a uniform temperature, and its use avoids that constant walking back and forth from the stove to the ironing board, thus saving valuable time and energy.

There are many small gas appliances for use in the kitchen designed to save time and labor, while giving more satisfactory results than can be secured by the older methods; among them may be mentioned a small portable oven recently brought out, designed to be placed over one flat stove burner, for baking a few potatoes or a small pan for biscuits, etc.

Another innovation, handy for those using much poultry, is a poultry singer, on the order of a Bunsen burner, with a wooden handle; it is connected by a rubber tube and is used much as a torch would be. The result surpasses all other methods.

There are also perpendicular broilers, broiling both sides at once, toasters, cake griddles, etc., etc.

Reference has been made here to a few of the gas appliances for use in the home, but there are also many gas devices made for use in the various trades. In fact, in spite of the rapidly increasing uses of electricity, gas is keeping fully abreast with it, and new uses and new appliances are being constantly devised.—Charles F. Smith, in "The National Builder."

ELEVATOR MANUFACTURERS ORGANIZE

A New Association Formed to Standardize Elevator Construction, Reduce Freight Costs, Improve Selling Methods and Generally Better Trade Conditions.

On May 25th, in the Hotel Iroquois, of Buffalo, an important gathering of men interested in the manufacture of elevators, assembled to discuss matters of trade and mutual interest. As a result of their deliberations there was organized the Elevator Manufacturers' Association of America. H. F. Gurney was chosen to be President of the new association; Martin McLauthlin, of Boston, Vice-President; C. H. W. Atkins, of Cincinnati, Secretary; A. E. Montgomery, of Moline, Ill., Treasurer, and F. E. Turner, of Kansas City, the fifth of the Governing Board.

The new organization was largely the result of the activity of Harold W. Phillips, of Washington, D. C., and the attendance numbered about thirty of the leading elevator builders of the United States reaching from coast to coast. The "get-together" impulse was managed without any of the fuss-and-feathers incidental to most movements of the kind. There were no brass-band tactics, no newspaper advance notices, no premature publication of plans or purposes. The men interested met quietly, proceeded to business, declared their independence of cliques and combines and subscribed to oaths of loyalty to the new association and to each other.

The announced purpose of the new association is to bring about a general improvement in manufacturing conditions in the elevator trade, the co-operative agreement of plants nominally competitive with a view to decreasing freight costs and the betterment of selling organizations and marketing methods.

Addresses were delivered by A. B. See, on patent litigation; by C. H. W. Atkins, on the standardizing of elevator construction; by M. McLauthlin, on the advisability of creating State Boards to look after the subject of elevator regulation; by Mr. Hecht, of Chicago, on uniform contracts for use among architects in dealing with elevator construction; by Mr. Montgomery, on the necessity of understanding freight and labor conditions as well as the local building regulations in different sections of the United States and Canada; by Mr. Gurney, on selling methods as now practiced in the elevator field, with suggestions for their betterment; by Mr. Houghton, of Toledo, on the thorough computing of costs; Mr. Ketchum, of Warsaw, on co-operative competition; Mr. Clopp, of Philadelphia, on the benefits of association; Mr. Turner, of Kansas City, on legal pitfalls, and Mr. Reedy, of Cincinnati, on brotherly love.

Mr. Phillips assured a representative of the "Builders' Guide" who saw him recently in Washington, that the new association was purely a movement for the mutual advantage of the independent elevator manufacturers of America, designed to bring them into closer association, and to promote the establishment of an engineering interest in the finer points of construction. Mr. Phillips said the association was not a movement to control prices, but to advance selling standards, the question of costs and marketing methods. Asked how the new association would be likely to affect the Otis Elevator Company, Mr. Phillips laughingly replied that he had been so busy he had quite forgotten to consult the Otis people with reference to this subject, hence was not in a position to say.

form contract, his bond and forfeit. He was accustomed to command and have his commands obeyed and sum ego lex seemed specification and contract enough for him.

My office boy was going to build a pigeon-cote by contract and our whole office helped him write the specification. It was thirty-three pages long, a veritable masterpiece, and every word applied definitely to the building of that pigeon-cote. It began with our regular general conditions, three printed pages of them. Next came several pages of general description; then masonry, carpentry, sheet metal, roofing, painting, glazing, and all the others, each with all possible flourishes. The contract was a corker; parties of all the parts, whereas, hereinafter, aforesaid, bond, bonus and forfeit, red seals and witnesses. Gus sent it to Iver Iversen and back it came in due time, duly signed on each page, executed, sealed and delivered. After the second generation of pigeons had had time to take their customary nourishment out of their mothers' open mouths, Iver came into the office one day. The boys remembered the specification on which the office had prided itself as being by far the most splendidly complex, verbose, involved and legal that they had ever perpetrated. Accordingly they asked Iver how he liked it. "Spasificash ban gran tick," spake Iver. "But ah bean't a reader." Nor a writer either, it seemed, for Iver's boy had signed the contract. Iver claimed to have been building for years, under "gran tick" contracts and specifications and had never been troubled by the fact that he couldn't read a word of them.

We use the card system in the office. So much of every specification is common to all and so many materials are specified year after year in exactly the same manner that our specification writer simply makes notes from his index and the stenographers find the cards to which they refer, and copy them. Only the special instructions are dictated. In re-reading he seldom goes through the indexed paragraphs, leaving them to be checked by the stenographers who typed them. It is difficult to make mistakes by this scheme, but we let a curious contract once thereby. A retiring office boy had altered the key just before he left.

"The foundations shall be of concrete, mixed equal parts cow manure and loam, carefully raked level, and seeded with Henderson's 'Shady Lawn' grass seed." That house would have seemed to "grow right out of its environment," to quote the house building magazines. The same stenographer made another slip a few pages further along.

"The floors shall be well scratched and finished with a sand finish."

His revenge was even sweeter when the plumbing was reached. "The bath tubs shall be made by Tiffany of favril or translucent glass. They shall be according to the following list and shall be arranged to ring bells in the servants' quarters when any buttons are touched. The bath rooms for the owner and servants shall be cross-connected so that in winter only one need be used at the owner's option. The owner's bath tubs shall be

SPECIFICATIONS

The description of a registered colt reads something like this: "Stamboul, by Racine, out of Mater." "Specifications, by Law, out of Experience" would describe our title in the parlance of horse sense. The perfect specification would be the sum total of three lectures to a visitor from Mars on "How to Properly Construct a House" by an earnest artist, a careful builder and a shrewd attorney. At present the object is to get it all your own way, so that, taken in connection with the "Uniform Contract," by no possible contingency can the "Party of the Second Part" have any chance at all. So the specification tries hard to be legal and just as hard to be inclusive, and when it is the result of real legal advice and real building experience I have no doubt that it is as efficient as its sound is formidable. But as it is usually done, it is merely verbose and contradictory. Like the time and forfeit

clauses in the contract, much of the specifications cannot be enforced. A great deal of it is in the nature of a blanket and horse and men know how hard it is to keep a blanket on, especially when it is needed. Moreover, the architect writes his specifications and often lets the contractor tell him just what they really mean. On the other hand, I've known strong men to let enormous contracts on next to no specifications at all and through the force of their own personalities require an excellent observance of the principles of good construction. My uncle, General Thumtack, let a famous contract on the second federal dam at Rutland. "This dam is to be built like the first dam, only a damn sight better." He drove the job through with the mailed fist and when he wanted anything done his own way he fell back on that "only-better" clause. It was his general conditions, his general description, his uni-

plainly marked with a sign in red letters six inches high, 'To be used only in case of emergency.' "

"There shall be the following speaking tubes: from owner's bed room to Trenton Potteries, Trenton, New Jersey; from servants' bed room to the Hudson Terminals, all cross-connected at owner's option. Intercommunicating telephones having stations at the following points: Sanitary Manufacturing Company, St. Louis, Missouri; J. L. Mott Company, New York City, and police headquarters."

The successful contractor called our attention to the fact that he didn't get the meaning of all the specifications; but the job worked out all right because the owner had never read past the ninety-seventh clause of the general conditions and the contractor said he only asked for information and not in a spirit of carping criticism and that he had never pretended to understand Blackstone on Building. I remember a prominent lawyer's remark in reading the specifications for his house: "I get it all but the legal part." The builder got it all but the building part, and so the office boy got left.

Specifications are the essence of things hoped for, the image of things not seen. A perfect specification writer should have graduated from Columbia Law School and Drummond's Detective Agency and then taken a course in palmistry to cover the unforeseen contingencies. He then should be fitted to sufficiently becloud the issue, and if the superintendent is a law unto himself the result will be the same as with the General's dam or Gus' pigeon-cote.—T. Thumbtack in "Architecture and Building."

FREIGHT RATES AGAIN.

Last month we commented on the resolution sent out by the National Lime Manufacturers' Association to the effect that they were in favor of the 5 per cent. increase in freight rates asked by the railroads. There seems to be a new development in this matter which will place a very serious burden on all manufacturers of low priced, bulky products; that is, the idea of making a charge for placing cars on private sidings. The suggestion is for a \$2 spottage charge for each car placed on a siding. An example is instanced by Mr. W. E. Carson, President of the National Lime Manufacturers' Association, as follows: A carload of wine is in monetary value worth, say, the value of a hundred carloads of lime, but would bear only a \$2 charge, whereas the same value of lime would sum up to a \$200 charge. Furthermore, it is pointed out that because of being carload shippers and having private sidings and doing all their own packing of shipments, is it proposed to penalize the manufacturers. All large shippers of building materials and supplies should give careful consideration to the present hearings before the Interstate Commerce Commission.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

EFFECT OF ELECTROLYSIS ON CONCRETE

United States Bureau of Standards Gives Results of Investigation on Electrolysis

It is usually difficult to determine the direct cause of failure of reinforced concrete structures and it will therefore be of interest to those engaged in this class of work to know that the United States Bureau of Standards has made an elaborate series of experiments to determine the effect of electrolysis on reinforced concrete. There has been considerable discussion as to the means employed to prevent damage by stray electric currents to underground cables and pipes, and while experts have long known to a limited extent that this damage also extends to reinforced concrete work, no definite information was available on this very important question. The results of experiments conducted by the United States Bureau of Standards have been published as Technology Paper No. 18, "Electrolysis in Concrete." These experiments, which were started in 1910, proposed first to determine the nature and cause of the phenomena produced by the passage of electric currents; second, to investigate the probable extent of danger from electrolysis in practice and the conditions under which trouble is likely to occur, and third, to find means of mitigating the trouble due to electrolysis, leading to specific recommendations.

In the following abstract of this bulletin we have omitted the tabular data and that part of the discussion which is too technical to be of interest to our readers and given the results of the experiments that apply to practice.

Of the numerous theories that have been advanced for the cracking of reinforced concrete due to electric currents, that one which attributes it to oxidation of the iron following electrolytic corrosion, has been fully established. The oxides formed occupy 2.2 times as great a volume as the original iron, and the pressure resulting from this increase of volume causes the concrete to crack.

Amount of Pressure.

The mechanical pressure developed at the surface of the iron has been measured in a number of cases, and has been found to reach values as high as 4,700 pounds per square inch, a value more than sufficient to account for the cracking of the concrete. Corrosion of iron even in wet concrete, is very slight when the voltage of the stray current does not exceed 15 volts, but the corrosion becomes rapid when the voltage exceeds 50 volts. Therefore, in order to secure safety of reinforced concrete from electrolysis the investigation shows that the voltage of stray currents must be kept low, and this is especially true wherever the concrete is exposed to the action of salt water.

The voltage of stray currents may be kept below the danger point by observing the following precautions:

In wiring a concrete building with direct current circuits it is of the greatest importance that the construction be such as to preclude the possibility of either side of the circuit coming in contact with the concrete. The insulation should be of the best grade and the wires should be inclosed in continuous metal conduit. When practicable periodic tests should be made on the insulation and any defect remedied. All pipes entering the concrete building should be provided with insulating joints where the pipes enter the building. Lead covered cables coming into buildings should be insulated from the concrete structure by supporting them on wood or other similar insulating material.

In the case of new structures of reinforced concrete salt should be omitted altogether if there is the slightest probability that they may ever be subjected to the action of electric currents. Calcium chloride is quite as bad as sodium chloride, it being the chloride that does the harm. A good deal can be accomplished also by the proper construction of the basement, foundations, and footings of the building. If beneath the foundations and outside the basement walls, a layer of insulating material be placed, it will prevent the access of electric current through the building foundations.

Impractical Suggestions.

Suggestions of some engineers that copper-clad steel or aluminum be used as reinforcing material has been shown to be impracticable, since copper coating is readily destroyed and the aluminum is attacked by the alkali in the concrete. Painting or otherwise coating iron with an alkali resisting metal preservative before embedding it in concrete, may serve to minimize the dangers of electrolysis, but no such coating has been found that does not prevent the proper formation of the bond between the concrete and iron when the concrete sets. Attempts to increase the resistance of concrete by the addition of so-called waterproofing compounds to the cement before mixing have uniformly failed to give satisfactory results. A method frequently proposed to protect reinforced concrete by making the reinforcing material continuous throughout the building and connecting it to the negative terminal of a low-voltage generator is referred to, but only to point out the dangers of it.

When the time comes when all electric currents can be kept where they belong in wires provided for their especial use, when the street railway company provides negative returns for their systems which will prevent stray electric current from running wild over the city, then, and only then, will reinforced concrete building be absolutely safe.

Good fortune often chooses the most unlikely of messengers to herald its coming.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Fireproofing.

Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

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Borden Stove Co.,
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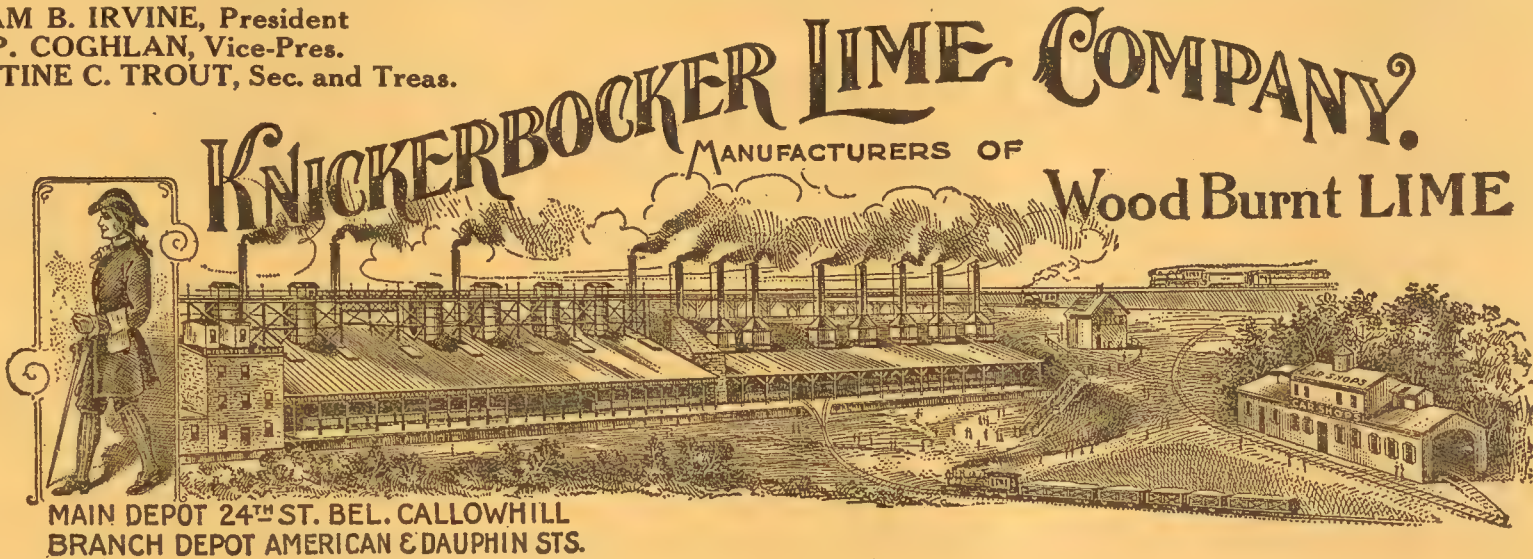
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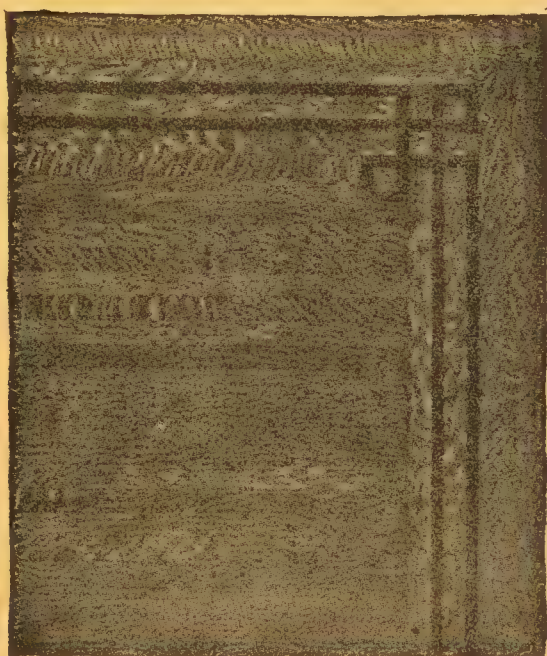
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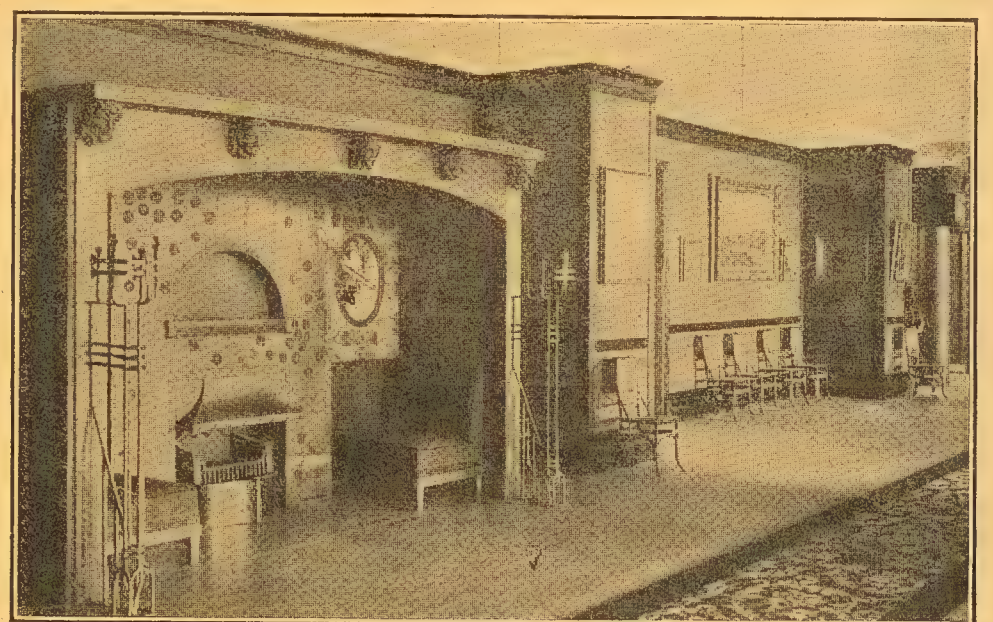
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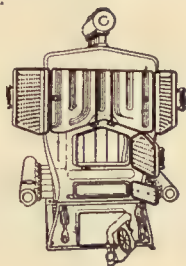
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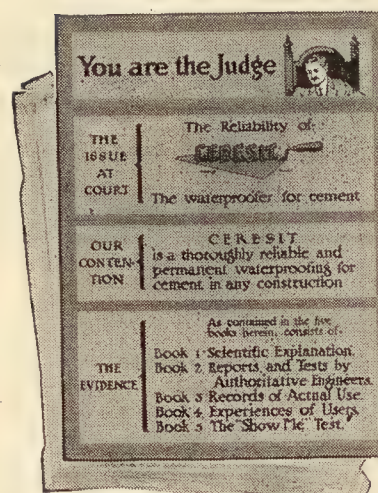
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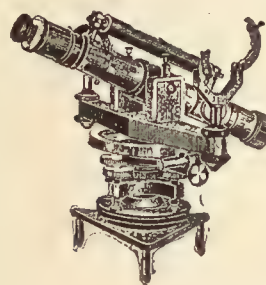
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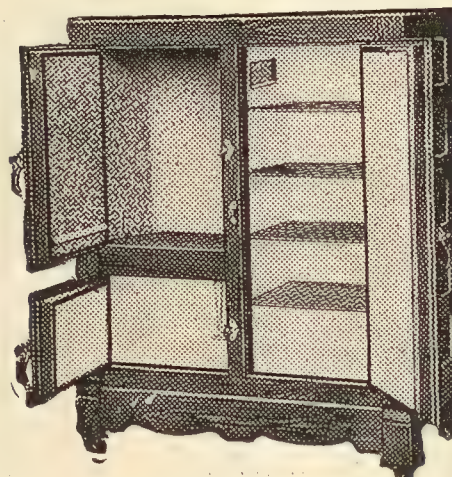


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PHILADELPHIA, WEDNESDAY, JUNE 24, 1914.

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Factory Building, Nicetown, Phila. \$100,000. Architects, Ballinger & Perrot, 1211 Arch street. Owner, George W. Blabon Co., Nicetown, Phila. Reinforced concrete and brick, 4 stories, slag roof, electric lighting. Plans in progress.

Gymnasium, Cheltenham avenue and Chew street. \$20,000. Architects, Ballinger & Perrot, 1211 Arch street. Owner, Immaculate Conception R. C. Church, Rev. M. J. Higgins, 1045 East Cheltenham avenue. Brick, 1 story, 60x110 feet, slate roof, steam heating, electric lighting, swimming pool. Plans in progress.

Garage (add.), Mentor and A streets, Architect, H. A. Macomb, 214 South Seventh street. Owner Jacob Mimmi, Tacony, Phila. Brick, 1 story, 20x40 feet, slag roof, electric lighting. Owner taking sub-bids.

Residence (alt. and add.), 111 East Cliveden street, Gtn. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, C. W. Potts, 127 Cliveden street, Gtn. Brick, 3 stories, slate roof, expanded metal lath, tile work (heating, electric work, parquet floors reserved). Architects taking bids due June 24th. The following are figuring: A. L. Fretz & Son, 1222 Chancellor street; R. C. Ballinger & Co., 218 North Thirteenth street; F. B. Davis, 240 North Sixteenth street; Samuel Harting, 20 East Johnson street; William C. Wright, 22 Harve y street.

Club House (alt. and add.), 251-253 South Camac street. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Coin D'Or Club, care of Yarnall Abbott, Abbott Building. Brick, 3 stories, 29x66 feet, tile and slag roof, metal lath, metal sash and frames (heating and lighting reserved). Architect taking bids due June 26th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; F. B. Davis, 240 North Sixteenth street; Smith-Hardican Co., 1606 Cherry sts.; Stacy Reeves & Sons, 2011 Market street; William R. Dougherty, 1610 Sansom street; Lam Building Co., 1001 Wood street; Vincent A. Feeser, 618 North Thirty-ninth street.

Twin Residence, Washington lane and Limekiln pike. Architect, A. R. Holland, 3922 N. Franklin street. Owner, Ontro Lehman, 3922

Franklin street. Brick, 2½ stories, 16x40 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Coal Trestle, Fourth street and Allegheny avenue. Architect, William Hunter, Reading Terminal. Owners, Philadelphia & Reading Railway Co., Reading Terminal. Concrete and steel, 300 feet long, slag roof. Owners have received bids.

Connecting Bridges (2), Delaware River and Morris street. Architects, Peuckert & Wunder, 310 Chestnut street. Owner, John T. Bailey Co., on premises. Steel and iron, slag roof. Architects have received bids.

Theatre, 2209-2211 North Broad street. Architect, M. H. Dickinson, 1524 Chestnut st. Owner, Kahn & Greenburg, Morris Building. Brick and terra cotta, 1 story, 32-125 feet, slag roof, steam heating, electric lighting, metal lath. Architects have received bids.

Store and Residence (alt. and add.), 513 South Eighth street. Architect, J. E. Jackson, 727 Walnut street. Owner, Mrs. C. Rosen, on premises. Brick, 3 stories, 18x50 feet, tin roof (hot water heating and electric lighting separate bids), hardwood floors. Owner has received bids.

Residence, Germantown, Phila. \$20,000. Architect, E. B. Gilchrist, 1424 Walnut street. Owner, W. M. C. Kimber, 545 Wister street, Germantown. Stone, 2½ stories, 55x80 feet, tile roof heating and lighting reserved). Architects taking bids June 24th. The following are figuring: Henry L. Brown, 1714 Sansom street; Pringle Borthwick, 8018 Germantown avenue; J. S. Cornell & Sons, Land Title Building; J. E. Walt, 204 East Willow Grove avenue; F. Elvidge & Sons, 5522 Germantown avenue; Samuel Harting, 20 East Johnston street; Joel W. Hutton & Co., Harrison Building.

Church (alt. and add.), Broad and Oxford streets. Architect, James S. Duffy, 1512 Chestnut street. Owner, Oxford Presbyterian Church, care of John H. Smaltz, Chairman, 315 North Twelfth street. Stone, 1 story, slag roof, expanded metal lath (heating, electric work and lockers reserved). Owners have received bids.

Residence, Oak Lane, Phila. \$12,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, Peter Woll, Jr., Seventieth street and City Line, Oak Lane, Phila. Brick and rough cast, 2½ stories, 50x40 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors. Builder, William J. Grubler Co., 219 East High street. Plans in progress. Builder will take sub-bids.

Residence (alt. and add.), 1711 Rittenhouse street. Architects, Stewardson & Page, 320 Walnut street. Owner, Mrs. A. D. Bache, on premises. Brick, 4 stories, tin roof, oak floors (heating reserved, water-proofing, metal lath. Architects have received bids.

Store Building, 3233 Ridge avenue. Architect, E. D. Salter, Parkside and Wynnewood avenues. Owner, Victor I. Ridenour, on premises. Brick and plaster, 1 story, 16x46 feet, slate and slag roof, steam heating, electric lighting. Owner has received bids.

Stable, Sixteenth and Fountain streets. Architect, private plans. Owners, Moore & Carver, 1305 Diamond street. Brick, 2 stories, 29x120 feet, slag roof, electric lighting. Owners have received bids.

College Buildings (alt. and add.), Eighteenth and Girard avenue. Architect, John T. Windrim, Commonwealth Building. Owners, Girard College, on premises. Stone and brick, 1, 2 and 3 stories, 87x119 feet, slate roof, hot water heating, electric lighting, hardwood floors, metal lath, enamel brick, consists of alteration and addition to four buildings and a new toilet building. Architect taking bids, due June 26th. Pomeroy Construction Company, 1609 Ransstead street; F. W. Van Loon, Denckla Building; J. Myers & Sons Company, Witherspoon Building, are figuring.

Residence (alt. and add.), Sixth and Pine streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Dr. N. Y. Belber, on premises. Brick and plaster, 3 stories, 20x27 feet, slag and tile roof (electric lighting reserved), hardwood floors. Architect taking revised bids, due June 26th. Smith-Hardican Company, 1606 Cherry street; Lam Building Company, 1001 Wood street; J. Rose & Sons,

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Stable, 425-27 Spruce street. Architect, private plans. Owner, Harry Briskman, 423 Spruce street. Brick, 2 stories, 40x102 feet, slag roof. Owner taking bids.

Synagogue, Fifty-eighth and Walnut streets, \$50,000. Architect, Louis Levi, Real Estate Trust Building. Owners, Congregation Beth-El, care of S. E. Strauss, 4932 Locust street. Stone, 1 story. Plans in progress.

Residences (11), southeast corner of Ninth and Reed streets. Architects, B. J. Medoff & Sons, 524 Walnut street. Owner, Samuel Wilensky, 816 Reed street. Brick, 18x60 feet, 3 stories, slag roof, hot air heating, electric lighting. Architects taking bids, due June 26th. Fred Quate, 1323 Snyder avenue; J. Gorchov, 317 Reed street; Samuel Schultz, 923 East Moyamensing avenue; Louis Cohen, 417 Christian street, are figuring.

Hall (alt. and add.), Eighth and Lombard streets. Architects, B. J. Medoff & Sons, 524 Walnut street. Owners, Sazapove Brothers, Eighth and Lombard streets. Brick, 3 stories, metal lath, metal sash and frames. Consists of interior alteration and addition. Archi-

teets taking bids, due June 26th. Fred Quate, 1323 Snyder avenue; J. Gorchov, 317 Reed street, Samuel Schultz, 923 East Moyamensing avenue, and Louis Cohen, 417 Christian street, are figuring.

Residence (alt. and add.), 330 North Fifty-second street. Architect, P. J. Klinges, 1012 Walnut street. Owner, Dr. E. C. Bender, on premises. Brick, 2 stories, 14x18 feet, slag roof, hot air heating, electric lighting. Architect taking bids, due June 29th. F. B. Davis, 240 North Sixteenth street; E. E. Hollenback, Fifteenth and Race streets; Stacey Reeves & Sons, 2011 Market street; F. E. Wallace, 1210 Sansom street; A. Raymond Raff, 1635 Thompson street, are figuring.

Garage, St. Martins, Philadelphia. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, F. S. McIlhenny, St. Martins, Pa. Stone and brick, 1 story, 26x41 feet, shingle roof, hot water heating, electric lighting (gasoline storage reserved). Architect taking bids, due June 27th, 8 A. M. Irwin Faut, 4228 Sydenham street; Pringle Borthwick, 8018 Germantown avenue; J. E. Walt, 204 East Willow Grove avenue; W. J. Gruhler, 219 East High street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 2205 Walnut st. Architects, Magaziner & Potter, 603 Chestnut street. Owner, S. P. S. Mitchell, on premises. Brick, 4 stories, slag roof, hot air heating, electric lighting. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Laundry and Boiler House, Fox and Clearfield streets. \$15,000. Architect, private plans. Owners, William and Charles Bechtold, 872 North Seventh street. Brick, 1 and 2 stories, 142x60 feet and 30x28 feet, slag roof, electric lighting. Contract awarded to George Kessler Contracting Co., Drexel Building, Phila.

Dye House and Finishing Building, Second and Lippincott streets. \$28,000. Architect, W. E. S. Dyer, Land Title Building. Owners, Joseph R. Foster & Sons, on premises, Brick,

1 and 3 stories, 56x195 feet, slag roof, metal sash and frames (heating and lighting reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Friends' School (alt.), Main and Coulter streets, Gtn. Architects, Morris & Erskine, Crozer Building. Owners, Germantown Friends' School, on premises. Metal ceilings, metal lath, damp-proofing, metal frames and sash, safety treads. Contract awarded to William J. Gruhler, 219 East High street, Gtn.

Church, Fifty-sixth street and Wyalusing avenue. \$25,000. Architect, George E. Savage, Witherspoon Building. Owner, Fifth United Presbyterian Church, care of Rev. R. W. Burnside, 642 North Fifty-sixth street, Phila. Stone, 1 story, slate and slag roof

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(heating and electric work separate bids). Contract awarded to E. E. Hollenback, Fifteenth and Race streets.

Residence (alt. and add.), East Washington lane and Sullivan street, Gtn. \$5,500. Architect, private plans. Owner, Frank Acker, 510 West Manheim street. Stone, 2½ stories, 36x62 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Gtn.

Manufacturing Building, Ninth and Susquehanna avenue, \$65,000. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, J. Sullivan & Sons, 902 Montgomery avenue. Brick and concrete, 5 stories, 50x208 feet, slag roof, waterproofing, metal lath, metal sash and frames. Architects taking separate bids on lighting and heating. Contract awarded to Turner Concrete Steel Company, 1713 Sansom street.

Drug Store (alts.), northeast corner of Sixteenth and Chestnut streets, \$3,000. Architect, private plans. Owners, Riker-Hegeman Company, 1332 Chestnut street. Consists of general alterations to first floor, new bulk windows, electric lighting, tile, marble and terrazzo work. Contract awarded to Smith-Hardican Company, 1606 Cherry street.

Bank Building (alt. and add.), Broad and Diamond streets. Architect, Benj. R. Stevens,

1737 Filbert street. Owners, Broad Street Bank, care of Dr. Mayer, Broad and Cayuga streets. Brick, 3 stories, 18x20 feet, slag roof, steam heating, electric lighting, oak and composition floors. Contract awarded to Herman Voight, 1251 North Twenty-eighth street.

Theatre, Broad and Dauphin streets. Architect, M. Haupt, Drexel Building. Owners, Central Theatre Company, care of L. H. Cahhan, 1534 Arch street. Brick, 1 story, 40x151 feet, slag roof, steam heating, electric lighting. Contract awarded to Joseph Lupowitz, 429 Snyder avenue.

Store and Show Rooms, 1321 Vine street. Architect, Charles E. Oelschlager, Harrison Building. Owners, Famous Players Film Exchange Company, 1331 Vine street. Brick and stone, 2 stories, 16x136 feet, slag roof, steam heating, electric lighting, metal ceilings, metal lath. Contract awarded to P. J. Hurley, 1233 Cherry street.

Hospital (add.), Thirty-third and Powelton avenue. Architect, Walter H. Thomas, 130 South Fifteenth street. Owners, American Oncologic Hospital, on premises. Brick, 2 stories and basement, 40x50 feet, slag roof, metal lath, metal frames and sash, waterproofing (heating and lighting reserved). Contract awarded to F. E. Wallace, 1210 Sansom street.

PENNSYLVANIA

Construction News

Warehouse, Harrisburg, Pa. Architect and Engineer, L. V. Page, Chicago, Ill. Owners, Emerson-Brantingham Co., Harrisburg, Pa. Brick and concrete, 3 stories, 141x196 feet, slag roof, steam heating, electric lighting, metal doors and frames, water-proofing, elevators. Owners have received bids.

School, Sixth and Walnut streets, Darby, Pa. \$32,630. Architects, Folsom & Stanton, 1433 Chestnut street, Phila. Owners, School Board, William E. Buckman, Secretary, Darby, Pa. Stone and terra cotta trimmings, 2 stories, 91x65 feet, Emack's slate roof, reinforced concrete and hollow tile fire-proofing, safety treads, metal lath (heat and electric work and blackboards reserved). Lowest bid submitted by F. Roe Searing, Perry Building, Phila.

School, Tenth street and Ridge avenue, Darby, Pa. \$22,127. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, School Board, William E. Buckman, Secretary, Darby, Pa. Sayre & Fisher brick and terra cotta trimmings, 2 stories, 40x62 feet, slag roof, concrete and hollow tile fire-proofing, safety treads, metal lath (heating and electric work separate bids), (blackboards reserved). Low-

est bid submitted by Monaghan & Losse, 218 South Twelfth street, Phila.

Residence (4), Norristown, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Phila. Owner, J. Norman Cassel, 417 Swede street, Norristown, Pa. Brick, frame and plaster, 2½ stories, 16x51 feet each, slate roofs, hot water heating, gas and electric lighting. Owner taking sub-bids.

Residence, Spring City, Pa. \$2,500. Architect, J. V. Foley, Royersford, Pa. Owner, Edward Kein, Spring City, Pa. Brick, 2½ stories, 18x42 feet, slate roof, steam heating, gas and electric lighting. Plans in progress. Architect will take bids in a few days.

Residence, Spring City, Pa. \$2,500. Architect, J. V. Foley, Royersford, Pa. Owner, Ralph Mingin, Spring City, Pa. Brick, 2½ stories, 18x42 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Double Residence, Spring City, Pa. \$5,000. Architect, J. V. Foley, Royersford, Pa. Owner, A. W. Urner, Spring City Inn, Spring City, Pa. Brick, 2½ stories, 46x32 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Residences (2), Rydal, Pa. Architects, Mc-

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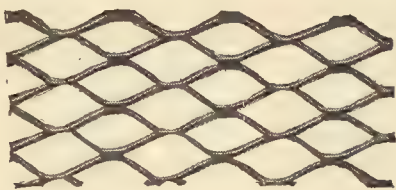
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Ilvain & Roberts, Land Title Building, Phila. Owner, G. Henry Stetson, Land Title Building, Phila. Stone and plaster, 2 1/2 stories, 52x23 feet, wing, 18x13 feet, shingle roof, oak floors, electric lighting, hot water heat. Owner taking bids due June 29th. The following are figuring: Specht & Sperry, Heed Building; J. B. Flounders, 1329 Arch street, Phila.; E. D. Lever, Abington, Pa.; W. John Stevens, Wyncote, Pa.

Dairy Building, near Newtown Square, Pa. Architect, Ralph E. White, Pennsylvania Building, Phila. Owner, Dr. Thomas G. Ashton, Wynnewood, Pa. Hollow tile and stucco, 2 stories, 41x47 feet, shingle roof, expanded metal lath, structural slate (heating and electric work reserved). Architect has received bids.

Church and Sunday School, Ridley Park, Pa. \$40,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Phila. Owner, Ridley Park Presbyterian Church, Ridley Park, Pa. Brick, stone and plaster, 1 and 2 stories, slate roof, steam heating, electric lighting. Plans about completed. Architects will soon take bids.

Bakery and Stable, Allentown, Pa., \$30,000. Architect, Charles Balderson, 411 Walnut street, Philadelphia. Owner, Frank C. Kolb, Reading, Pa. Brick, 2 stories, 80x154 feet, slag roof, steam heating, electric lighting, maple floors, elevators. Plans in progress.

Factory (alt. and add.), Wilkes-Barre, Pa. Architect, Charles A. Welsh, Wilkes-Barre, Pa. Owners, J. B. Corr Biscuit Company, Wilkes-Barre, Pa. Brick and concrete, 1 story, electric lighting. Plans in progress.

Mausoleum, Shanertown, Pa., \$50,000. Architect, Charles A. Welsh, Wilkes-Barre, Pa. Owners, N. E. Mose Company, Scranton, Pa. Marble, 1 story, 57x85 feet, asphalt and prom-

enade tile roof, bronze windows and doors. Plans in progress.

Society Building, Wilkes-Barre, Pa. Architects, H. B. Long & Co., Miners' Bank Building, Wilkes-Barre, Pa. Owner, Luzerne, Medical Society, Wilkes-Barre. Brick, stone and terra cotta, 2 stories, 66x48 feet, asphalt and tile roof, fan system of heating, electric lighting, hollow tile and concrete floors, safety treads, metal frames and sash, metal lath, dumb waiters. Plans completed. Architects will take bids in a few days.

Residence, Scranton, Pa., \$16,000. Architect, Lewis Hancock, Jr., Coal Exchange Building, Scranton, Pa. Owner, S. R. Bless, Scranton, Pa. Brick, stone trimmings, 2 1/2 stories, 22x58 feet and 25x40 feet, tile roof, steam heating, gas and electric lighting, hardwood floors, tile work. Architect taking bids.

High School, Forest City, Pa., \$29,000. Architect, Percival J. Morris, Budd Building, Scranton, Pa. Owners, Board of Education, Forest City, Pa. Brick, stone and steel, 2 1/2 stories, 103x107 feet, slate and slag roof, steam heating, electric lighting, composition floors, metal lath. Owners taking bids, due June 29th. Walsh, Barrett & Co., Connell Building, Scranton, Pa., are figuring.

Barn, Pleasant Mount, Pa., \$10,000. Architect, Percival J. Morris, Burr Building, Scranton, Pa. Owners, State of Pennsylvania, Department of Fish Hatchery, Harrisburg, Pa. Frame, steel and stucco, 2 1/2 stories, 34x37 feet, 17x19 feet, slate and tin roof, concrete floors, metal lath. Owners have received bids.

Residences (6), Sellersville, Pa. Architect, private plans. Owners, Sellersville Home Building Company, Sellersville, Pa. Brick, 2 1/2 stories, 17x43 feet each, tin roofs, electric lighting, hot air heating or hot water heating. Owners desire sub-bids on all lines.

Residence and Stable (alt. and add.), Radnor, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Chas. Munn, Radnor, Pa. Stone and frame, 2 1/2 stories, tile work, hot water heating (electric lighting reserved), hardwood floors. Architect has received bids.

Y. W. C. A. Building, Chester, Pa., \$45,000. Architect, Benj. Rush Stevens, 1737 Filbert street, Philadelphia. Owners, Y. W. C. A., care of Mrs. A. R. Conwell, Upland, Pa. Brick, limestone and terra cotta, 3 1/2 stories, 53x118 feet, slag and asbestos roof, composition floors, reinforced concrete floors, waterproofing and dampproofing, metal lath, safety treads, slate blackboards, metal doors, metal lockers (heating and electric work reserved). Architect taking bids, due June 30th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; James H. Wells, Heed Building; Charles McCaul Company, 1713 Sansom street; H. C. Rea Company, 1027 Wood street; Burd P. Evans & Co., Thirteenth and Wallace streets; Roydhouse-Arey Company, Fidelity Building, all of Philadelphia, and William Provost, 1226 Walnut street; Wil-

liam Ward, Howarth Building; Nolan Bros., 524 Market street, Chester, Pa.

Garage, Rydal, Pa. Architects, Hering & Fitch, 132 Madison avenue, New York City. Owner, Mrs. Anne H. Garrett, care of W. E. Hering, 112 North Twelfth street, Philadelphia. Stone and hollow tile and plaster, 1 1/2 stories, 31x36 feet, shingle roof, hot water heating, electric lighting, concrete floors, metal lath. Owner taking bids, due June 24th. Specht & Sperry, Heed Building, Philadelphia, and E. D. Lever, Abington, Pa., are figuring.

Church and Sunday School, Wilkes-Barre, Pa., \$35,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owners, First Presbyterian Church, Wilkes-Barre, Pa. Brick and terra cotta, 2 stories, 45x108 feet, slag and slate roof, steam heating, electric lighting. Architects taking bids. John Curtis & Co. and Walborn & Barney, Wilkes-Barre, Pa., are figuring.

Residence, Easton, Pa., \$5,000. Architect, George A. Schnabel, Reeder Building, Easton, Pa. Owner, Fred C. Jarek, Easton, Pa. Stone and brick, 2 1/2 stories, 30x36 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors. Architect taking bids.

Residence and Store, Fort Washington, Pa., \$3,000. Architect, M. B. Bean, Lansdale, Pa. Owner, M. C. Dettera, Fourtown, Pa. Hollow tile and stucco, 2 1/2 stories, 28x32 feet, slate roof, steam heating, electric lighting. Architect taking bids, due July 3rd.

Residence, Norristown, Pa., \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Albert Myers, Norristown, Pa. Brick, 2 stories, 30x36 feet, slate roof, hot water heating, gas lighting. Architect will award contract in a few days.

Church, Linwood, Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, R. C. Church of the Resurrection, care of Rev. A. L. Ganster, Linwood, Pa. Stone, 1 story, 47x110 feet, slag and slate roof (heat and light reserved). Architects taking bids, due June 29th. The following are figuring: W. J. McShane, 417 South Thirteenth street, Philadelphia; Harry Richardson, Marcus Hook, Pa., and the following of Chester, Pa.: Ward Building Company, Nolan Brothers, F. G. Moore, William Provost, Jr., Mercadante & Sons.

Power House (add.), Merion, Pa. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owners, Sisters of Mercy, Merion, Pa. Stone, 1 story, 12x30 feet, slag roof. Architects taking bids, due June 30th. John P. McShane, 631 North Seventeenth street; M. L. Conneen & Co., J. Myers & Sons Co., Witherspoon Building; William R. Dougherty, 1608 Sansom street, all of Philadelphia, are figuring.

Cow Barn and Stable, Sharon Hill, Pa. Architect, H. M. Pedrick, Darby, Pa. Owner, W. H. Serrill Estate, Sharon Hill, Pa. Stone and frame, 1 and 2 stories, 36x36 feet and 34x59 feet, shingle roof, electric lighting.

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Owners taking bids, due June 30th. Julius Nelson, Darby, Pa., and D. Godshall, Darby, Pa., are figuring.

Post Office and Apartment House, Bryn Mawr, Pa. Architect, Lindley Johnson, Harrison Building, Philadelphia. Owner, Philip Harrison, Bryn Mawr, Pa. Brick, 3 stories, 33x83 feet, slag roof, hot water heating, electric lighting. Plans in progress. Bids in a few days.

Residences (22), Reading, Pa., \$77,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, Stump & Lewis, Jameson Place, Reading, Pa. Brick, 2½ stories, 14x60 feet each, slate roofs, hot air heating, gas and electric lighting. Plans in progress.

Sunday School, Portsmouth, Ohio, \$20,000. Architect, A. A. Ritcher, Fifth and Court streets, Reading, Pa. Owners, German Evangelical Church, Portsmouth, Ohio. Brick, stone trimmings, 1 story, 56x72 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Residence, Reading, Pa., \$4,500. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Frederick J. Villfarth, 115 Franklin street, Reading. Brick, 2 stories, 30x34 feet, slate roof, hot water heating, gas and electric lighting, tile work. Plans in progress. Architect will take bids in about 2 weeks.

Residence (alt. and add.), Reading, Pa., \$1,500. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Henry Swartz, 1538 Mineral Spring road, Reading. Brick, 2 stories, 14x12 feet, canvas roof, gas and electric lighting. Architect ready for bids.

Dance Hall and Storerooms, Minersville, Pa., \$5,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner's name withheld. Brick, 2 stories, 75x80 feet, slag roof, steam

heating, gas and electric lighting, hardwood floors. Plans in progress.

Twin Residence, West Wyomissing, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, William J. Mays, West Reading, Pa. Brick, 2½ stories, 28x40 feet, slate roof, hot air heating, electric lighting. Owner taking bids.

Bank, Reading, Pa., \$6,000. Architects, Stettler & Mengel, Wyomissing, Pa. Owner, Rocco Frasso, Reading, Pa. Brick, 3 stories, 20x60 feet, slag roof, hot water heating, gas and electric lighting. Architects taking bids, due July 3rd.

Lodge Building (add.), Lebanon, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, I. O. O. F., Lebanon, Pa. Frame and asbestos shingles, 1 story, asbestos shingle roof, gas and electric lighting, hardwood floors. Owners taking bids.

Church and Sunday School, Mt. Carmel, Pa., \$40,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Mt. Carmel M. E. Church, Mt. Carmel, Pa. Stone and brick, 1 story, 60x120 feet, slate roof, steam heating, gas and electric lighting, maple floors. Architect and owners taking bids, due July 7th, at 3.30 P. M. The following are figuring: C. W. Strayer & Co., Union Trust Building, Harrisburg, Pa.; Gordon Nagle, Morris Building, Pottsville, Pa.; Fink & Seidle, Colonial Trust Building, Reading, Pa.; Morse & Lewis, George H. Keefer, J. C. Rainier, of Mt. Carmel, Pa.

Factory (alt. and add.), Reading, Pa., \$10,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owners, Davis Hosiery Mills, Eighth and Oley streets, Reading, Pa. Brick, 3 stories, 48x25 feet, slag roof, steam heating, electric lighting, concrete floors, metal sash, fire tower. Owners are sub-letting all contracts.

PENNSYLVANIA

Contracts Awarded

Abbatoir, Altoona, Pa. \$47,000. Architects, C. H. A. Wannewetsch & Co., Buffalo, N. Y., 563 William street. Owner, United Home Dressed Meat Co., Altoona, Pa. Stone and concrete, 2 stories, 125x100 feet, Carey's roof, metal lath, steel sash. Contract awarded to William Linker Co., Heed Building, Phila.

Office Building (Jaggard), Altoona, Pa. \$45,000. Architect, Julien Millard, Hutchinson Building, Altoona, Pa. Owner, Mrs. Clara P. Pugh, Altoona, Pa. Brick, steel and concrete, 5 stories, 52x110 feet, slag roof, fire-proofing, metal lath, steel sash. Contract awarded to William Linker Co., Heed Building, Phila.

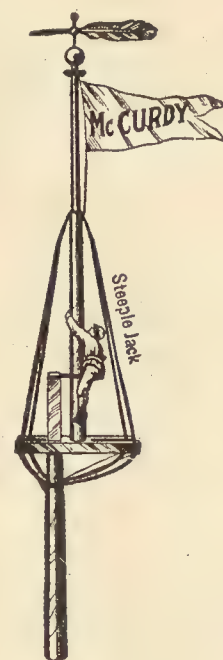
Residence (alt. and add.), Wyncote, Pa. \$10,000. Architects, Karcher & Smith, Crozer Building, Phila. Owner, name withheld. Stone, 2½ stories, tile roof, hot air heating, electric lighting. Contract awarded to W. John Stevens, Wyncote, Pa.

Residences (4), Oxford, Pa. \$10,000. Archi-

tect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Mrs. Annie A. D. Miller, Oxford, Pa. Brick and stucco, 2½ stories, 17x38 feet, slate and slag roof, hot water heating, gas and electric lighting. Contract awarded to D. F. & J. T. Brown, Oxford, Pa.

Double Residence, Phoenixville, Pa. \$7,500. Architect, J. V. Poley, Royersford, Pa. Owner, Mrs. Chester M. Spare, Phoenixville, Pa. Brick and stucco, 2½ stories, 54x36 feet, asbestos shingle roof, steam heating, gas and electric lighting. Contract awarded to John Keiter, Spring City, Pa.

Residence and Garage, Cynwyd, Pa. \$10,000. Architects, Druckenmiller & Williams, Land Title Building, Phila. Owner, W. A. Jarden, 324 South Fifty-second street, Phila. Stone and plaster, 2½ stories, 37x42 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to J. E. Kearney, 327 North Sixty-third street.



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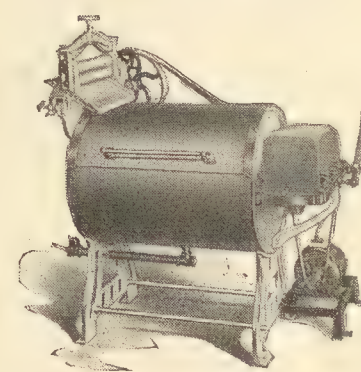
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Garage, Villa Nova, Pa. \$8,000. Architects, Furness & Evans Co., Fourth and Chestnut streets, Phila. Owner, J. R. Maxwell, Jr., Morris Building, Phila. Brick, 2½ stories, 35x50 feet, shingle roof (heat and light re-

served). Contract awarded to J. D. Lengel, Wayne, Pa.

Residence, Newtown Square, Pa. \$80,000. Architects, Day & Klauder, 925 Chestnut st., Phila. Owner, Charles Yarnall, Franklin Bank Building, Phila. Stone, 2½ stories, slate roof, electric lighting, hardwood floors, canvas roof (hot water heating, indirect system). Contract awarded to J. S. Cornell & Sons, Land Title Building, Phila.

Residence, Villa Nova, Pa. \$125,000. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Phila. Owner, P. W. Roberts, Bellevue-Stratford, Phila. Stone and stucco, 2½ stories, 150x36 feet, with 2 wings, tile roof, indirect hot water heating, electric light, parquetry and hardwood floors. Contract awarded to J. S. Cornell & Son, Land Title Building, Phila.

Residence, Wilkes-Barre, Pa., \$16,000. Architect, Frank B. R. Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owner, Frederick O. Smith, Wilkes-Barre, Pa. Brick, 3 stories, 40x60 feet, tile roof, steam heating, electric lighting, hardwood floors, tile work. Contract awarded to A. M. Hilderbrand Construction Company, Wilkes-Barre, Pa.

Residence, Dorranceton, Pa., \$4,000. Architect, Frank B. R. Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owner, Rev. J. M. Lloyd, Dorranceton, Pa. Frame, 2 stories, 24x30 feet, shingle roof, steam heating, electric lighting. Contract awarded to Brown & Neyhart, Dorranceton, Pa.

Store (alt. and add.), Wilkes-Barre, Pa., \$5,000. Architect, Frank B. R. Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owners, C. Walter & Son, Wilkes-Barre, Pa. New mahogany bulk windows, electric lighting, composition floors. Contract awarded to Sheppard Construction Company, Wilkes-Barre, Pa.

Convent (alt. and add.), South Scranton, Pa., \$5,000. Architect, Lewis Hancock, Jr., Coke Exchange Building, Scranton. Owner, St. Mary's Convent, Rev. Peter C. Christ, South Scranton, Pa. Contract awarded to Hagen Lumber Company, Scranton, Pa.

Home, Elizabethtown, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, F. and A. M. of Berks County, care of F. A. Marx, Reading, Pa. Stone, fireproof, 3 stories, 59x33 feet, slate roof, metal lath, electric lighting (heating reserved). Contract awarded to Adam Spatz, Wernersville, Pa.

School, Leesport, Pa., \$16,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, School District of On-the-leannee Township, care of Edmond Ahrens, Landin, Pa. Brick, 2 stories, 88x51 feet, slag roof, warm air heating, electric lighting, slate blackboards. Contract awarded to Daniel B. Wanner, Hyde Chest, Pa., Muhlenberg Township.

Hospital (alt. and add.), Reading, Pa., \$25,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Homoeopathic Hospital, 135 North Sixth street, Reading, Pa.

ing, Pa. Brick, 3 stories, slate roof, steam heating, gas and electric lighting, tile work, laundry fixtures. Contract awarded to Daniel H. Hunter, 820 North Eleventh street, Reading, Pa.

Church, New Cumberland, Pa., \$15,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, Church of God, New Cumberland, Pa. Brick, stone trimmings, 1½ stories, 50x90 feet, asbestos slate roof, vapor heating, electric lighting. Contract awarded to C. W. Strayer & Co., Union Trust Building, Harrisburg, Pa.

Club House, Reading, Pa., \$12,000. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owners, Merion Fire Company, Ninth and Merion streets, Reading, Pa. Brick, 2 stories, 50x90 feet, slag roof, gas and electric lighting. Contract awarded to John Albrecht, Reading, Pa.

Residence, Hyde Park, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Mrs. David Hinkle, Hyde Park, Pa. Brick, stone trimmings, 3 stories, 34x32 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Daniel H. Hunter, 820 North Eleventh street, Reading, Pa.

Residence (alt. and add.), Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, C. J. & H. K. Hoff, Fifth and Franklin streets, Reading, Pa. Brick, stone trimmings, 3 stories, tin roof, steam heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to H. J. Raudenbush, Reading, Pa.

Store (alts.), Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, Bright & Co., Fifth and Penn streets, Reading, Pa. Consists of alterations and new bulk windows, electric lighting, hardwood floors. Contract awarded to Charles H. Schlegel, Mt. Penn, Pa.

School, Mohnton, Pa., \$21,000. Architects, Stettler & Mengel, Wyomissing, Pa. Owners, Board of Education, Mohnton, Pa. Brick, stone trimmings, 2 stories, 84x70 feet, slag roof, steam heating, gas and electric lighting, slate blackboards. Contract awarded to Adam Spatz, Wernersville, Pa. Note change of builder.

School, White's Ferry, Pa., \$124,647. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Industrial School for Boys, care of Right Rev. Bishop M. J. Hoban, Scranton, Pa. Brick, stone, concrete and steel, fireproof, 3 stories, 153x194 feet, slate and slag roof, dampproofing, metal lath, safety treads, Kalamein doors, rolling steel partitions (heating, electric work, mechanical plant reserved). Contract awarded to Amsterdam Building Company, 43 West Twenty-seventh street, New York City.

Portable Schools (2), Scranton, Pa., \$6,000. Architect, private plans. Owners, Board of Education, Scranton, Pa. Frame, 1 story. Contract awarded to H. M. Dean, Dalton, Pa.

South Hermitage street, Trenton, N. J., is figuring.

Residences (2), Kenwood ave., Camden, N. J. \$6,000. Architect, private plans. Owner, Thomas G. Childrey, Seventh street and Kaighn's avenue, Camden, N. J. Brick, 2 stories, 16x50 feet, slag roof, hot air heating, gas and electric lighting. Owner is sub-letting all contracts.

Theatre, Apartments and Store, Burlington, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, J. Ellis, Burlington, N. J. Brick, 2 stories, 75x200 feet, slag roof, hot water heating, gas and electric lighting, tile and composition floors. metal lath. Architect has received bids.

Church, Monmouth Junction, N. J. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, St. Cecilia's R. C. Church, Rev. P. J. Quinn, East Millstone, N. J. Stone, 1 story, 38x68 feet, slag roof. Architect has received bids.

Rectory, Riverside, N. J. \$10,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, St. Peter's R. C. Church, Rev. Joseph Keuper, Riverside, N. J. Brick, stone trimmings, 3 stories, 40x36 feet, wing, 12x16 feet, slag and tin roof, hot water heating, gas and electric lighting. Architect has received bids.

School (add.), Merchantville, N. J. \$50,000. Architect, H. A. Macomb, 214 South Seventh street, Phila. Owners, Board of Education, Merchantville, N. J. Brick and stone, 2 stories and basement, 48x182 feet, slag roof, electric lighting, hot water heating, safety treads. Owners taking bids due July 7. Plans may be obtained from the Architect after June 24th, upon deposit of \$2.

School, Roebling, N. J. \$75,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Florence Township Board of Education, care of Thomas F. Watson, Secretary, Roebling, N. J. Brick, stone trimmings, 2 stories, 78x165 feet, slag roof, steam and warm air heating, electric lighting, metal doors and frames, safety treads, metal lath, concrete fire-proofing, damp-proofing. Owner taking revised bids, due June 26th. F. W. Van Loon, Denckla Building, and Berry-Goodwin Co., Drexel Building; H. L. Brown, 1714 Sansom street, Philadelphia; J. S. Rogers Co., Moorestown, N. J.; R. H. Carty, Hedding, N. J.; S. W. Mather & Son, American Mechanics' Building; W. J. & J. H. Morris, Broad Street Bank Building; David Tietz & Son, 16 Union street; Daniel A. Dugan, 505 Greenwood avenue; L. Levy & Son, 320 Centre street; I. Harper Clayton, American Mechanics' Building; Burton & Burton, American Mechanics' Building, all of Trenton, N. J., are figuring.

Workingmen's Cottages (10), Beverly, N. J. Architect, J. G. Brown, Witherspoon Building, Phila. Owner, Wall Rope Works, Beverly, N. J. Brick, 2 stories, 14x35 feet, slag roof, hot air heating. Owners taking bids. George W. Shaner, Palmyra, N. J., is figuring.

Brass Foundry, Trenton, N. J. Engineers, Day & Zimmerman, 611 Chestnut street, Phila. Owner, Trenton Brass & Machine Co., Prospect and Dale streets, Trenton, N. J. Brick and steel, 1 story. Plans in progress.

School, Chesterfield, N. J. Architect, C. S. Adams, 1509 Arch street, Phila. Owner, Board of Education, Chesterfield, N. J. Brick, 1 story and basement, 58x62 feet, slate roof, hot air heating, maple floors, metal lath, safety treads. Owners have received bids.

Post Office, Burlington, N. J. \$37,900. Architect, Oscar A. Wenderoth, Washington, D. C. Owner, United States Government, Treasury Department. Brick, 2 stories and basement, 56x77 feet, slate roof, steam heating, electric lighting, maple floor, water-proofing, metal lath. Lowest bid submitted by J. S. Rogers Co., Moorestown, N. J.

Post Office, Orange, N. J. Architects, York & Sawyer, 50 East Forty-first street, New

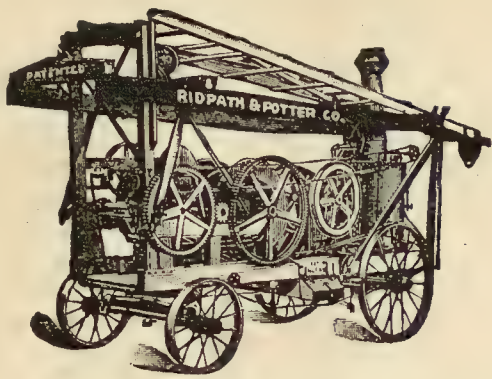
NEW JERSEY

Construction News

Schools (2), Milway and Richland, N. J. Architect, J. Wesley Arthur, Milway, N. J. Owner, Buena Vista Township School Board, care of Charles Wray, Chairman, Buena, N. J. Concrete, brick and stucco, 2 stories, 32x48 feet and 20x32 feet, metal tile roof (heating, hot air and blackboards reserved). Owners taking bids due June 25th. The following are figuring: Ketcham & McQuade, 1029 Brown street, Phila.; B. Buzby, Millville, N. J.; W. R. Titus, Paulsboro, N. J.; Banks & Howell, Richland, N. J.

Residence (alt. and add.), 812 South Third street, Camden, N. J. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Dominico Marino, on premises. Brick, 2½ stories, 16x20 feet, slag roof, hot air heating, gas lighting. Owner taking bids.

Residence (alt.), Trenton, N. J. \$3,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, name withheld. Brick, 2½ stories, 40x50 feet, hot water heating, gas and electric lighting, hardwood floors, tile work. Architect taking bids. Ed. LaRue, 53



We Drill Wells and Get Water

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RIDPATH & POTTER CO.

587 Bourse Building

Philadelphia, Penna.

York City. Owner, United States Government, Washington, D. C. Brick and stone, 1 story and basement, 86x89 feet, composition roof, steam heating, electric lighting, metal sash and frames, water-proofing, safety treads, metal lath. Owners taking bids due July 10th. Wells Construction Co., Witherspoon Building; J. E. & A. L. Pennock, Land Title Building, and Charles McCaul Co., 1713 Sansom street, all of Phila., are figuring.

Factory, Trenton, N. J. Architect, private plans. Owner, Cook Linoleum Co., Trenton, N. J. Brick, 4 stories, 72x172 feet, slag roof, steam heating, electric lighting. Owners have received bids.

Store and Apartments (3), Princeton, N. J. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Cornelius Dinnen, Princeton, N. J. Brick, stone trimmings, 3 stories 53x52 feet, slag roof, steam heating, gas and electric lighting, tile

work. Plans about completed. Architect will take bids in a few days.

Residence (alt. and add.), Burlington Township, N. J. Architect, H. A. Brown, Beverly, N. J. Owner, Reginald Branch, Burlington, N. J. Frame, 2½ stories. Details undecided. Plans in progress.

High School (add.), Burlington, N. J. Architect, H. A. Brown, Beverly, N. J. Owner, Board of Education, Burlington, N. J. Brick, stone trimmings, 2 stories, slag roof, gas and electric lighting. Owners taking bids due June 29th.

Schools (alt.), Trenton, N. J. Architect, W. A. Poland, Trenton, N. J. Owner, Board of Education, Trenton, N. J. Consists of alterations to the following schools, Hewitt, Cadwalader, Grant and Moses; fire escapes, fire towers, remodeling heating and ventilating plants, new plumbing fixtures. Owners taking bids due June 29th.

NEW JERSEY

Contracts Awarded

Residence (add.), Trneton, N. J. \$2,500. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, George Crawford, Trenton, N. J. Brick, 2 stories, 12x38 feet, slag roof, hot water heating, electric lighting and gas lighting. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

Residence, Chatham, N. J. \$6,000. Architect, J. V. Poley, Royersford, Pa. Owner, Mrs. Gertrude Hallman, Spring City, Pa. Brick, 2½ stories, 35x35 feet, slate roof, steam heating, gas and electric lighting, hardwood floors. Contract awarded to James Whitton, Chatham, N. J.

Home, Trenton, N. J. \$40,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, City of Trenton, Old Folks' Home. Brick, stone trimmings, 2 stories, 40x87 feet, 2 wings, 28x116 feet, slate roof, steam heating, tile work.

Contract awarded to Charles R. Randall, 43 North Hermitage street, Trenton, N. J.

Grinding Building, Camden, N. J. \$110,000. Architects, Ballinger & Perrot, 1211 Arch st., Phila. Owner, Victor Talking Machine Co., Camden, N. J. Brick, concrete and terra cotta, 6 stories, 80x200 feet, slag roof, electric lighting, steam heating, damp-proofing, fire-proofing, safety treads, metal sash and frames. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Phila.

Residence, Burlington, N. J. \$12,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Hollow tile and stucco, 2½ stories, 30x45 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath. Architect taking revised bids due June 25th. J. J. Norcross and Bramall & Dubell, Burlington, N. J., are figuring.

Miscellaneous Construction News

Hospital, Lakewood, O. Architect, Paul T. Cahill, Euclid Building, Cleveland, O. Owner, Lakewood Public Comapny, Lakewood, O. Brick, terra cotta and steel, fireproof, 4 stories, 97x37 feet, tile or slate roof, steel frames and sash, hollow tile and concrete fire-proofing, water-proofing, metal lath (heating, electric lighting, elevator, laundry equipment reserved). Architect has received bids.

Court House, Cincinnati, O. \$2,500,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Phila. Owner, City of Cincinnati, Court House Commission. Stone and steel, fireproof, 6 stories, 293x260 feet. Plans completed. Owners about to advertise for bids.

Warehouse (alt. and add.), Wilmington, Del. \$5,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner,

Philips Thompson Co., Fourth and French sts., Wilmington, Del. Frame, 1½ stories, 40x84 feet, slag roof, electric lighting. Plans about completed. Architect will take bids in a few days.

Fire House (alt. and add.), Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Phoenix Fire Co., Twelfth and King streets, Wilmington, Del. Brick and steel, 2 stories, slate roof, gas and electric lighting, metal ceilings. Plans in progress.

Theatre, Wilmington, Del. \$5,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, John S. Bogucki, 403 Maryland avenue, Wilmington, Del. Brick, 1 story, 30x90 feet, slag roof, hot water heating, gas and electric lighting, con-

crete floors, metal lath. Plans in progress.

Armory, Newark, Del. \$15,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, State Armory Board, Dover, Del. Brick, 2½ stories, 62x112 feet, slate roof, steam heating, electric lighting, composition floors, metal lath. Owners received bids June 23rd.

Garage (add.), Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Overland Garage Co., Wilmington, Del. Brick and concrete, 1 story, 21x50 feet, slag roof, electric lighting, concrete floors. Architect taking bids. The following are figuring: A. S. Reed & Bros. Co., 815 Shipley street; W. D. Haddock & Co., 804 Orange street; John A. Healy & Son, 707 Tatnall street; J. F. Owens & Son, all of Wilmington, Del.

Residences (6), Wilmington, Del. \$21,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick and stucco, stone trimmings, 3 stories, 16x50 feet each, tin and slate roofs, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath. Architect taking bids due June 25th. The following are figuring: Chas. J. Dougherty, 1809 Lincoln street; Alfred Downward, 809 Tatnall street; J. P. Reardon, 807 Shipley street; Joseph P. Morgan, Hares Corner; Joyce & Corrigan, Joseph Shunder, 600 Rodney street, all of Wilmington, Del.

Residence, Wilmington, Del. \$50,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut st., Phila. Owner, Josiah Marvel, Dupont Building, Wilmington, Del. Stone, 3 stories, 100x50 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress.

Stable (add.), Troy, N. Y. Architect, Chas. Balderson, 411 Walnut street, Philadelphia. Owners, Charles Freihofer Baking Company, Inc., Troy, N. Y. Brick, 1 story, 20x70 feet, slag roof, electric lighting. Plans in progress.

Garage, Troy, N. Y. Architect, Charles Balderson, 411 Walnut street, Philadelphia. Owners, Charles Freihofer Baking Company, Inc., Troy, N. Y. Brick, 1 story, 50x120 feet, slag roof (heating and lighting reserved). Plans in progress.

Bakery and Stable, Schenectady, N. Y., \$50,000. Architect, Charles Balderson, 411 Walnut street, Philadelphia. Owners, Chas. Freihofer Baking Company, Inc., Troy, N. Y. Brick, two and three stories, 31x70 feet and 72x172 feet, slag roof, heat and light separate bids, elevators. Architect taking bids, due June 30th. P. Haibach Contracting Company, Twenty-sixth and Thompson streets, Philadelphia, is figuring.

Bakery and Stable, Albany, N. Y. Architect, Charles Balderson, 411 Walnut street, Philadelphia. Owners, Charles Freihofer Baking Company, Inc., Troy, N. Y. Brick, 2 and 3 stories, 80x140 feet, slag roof (heating and lighting separate bids), elevators. Plans in progress.

Office Building, Durham, N. C. Architect, Alfred C. Bossom, 366 Fifth avenue, New York City. Owner, Geer Building, care of Foushee & Foushee, attorneys, Durham, N. C. Brick, limestone, granite, terra cotta and steel, fireproof, 2 and 5 stories, 72x76 feet and 184x48 feet, slag roof, steam heat, electric light, concrete floors, dampproofing and water-proofing, metal furring and expanded metal lath, safety treads, metal frames and sash, kalamein doors, elevator. Architect taking bids, due June 26th. Metzger & Fisher, Denekla Building, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Parochial School (alt. and add.), Wilmington, Del. \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Sacred Heart School, Tenth and Monroe sts., Wilmington, Del. Brick, 2 stories, 70x80 feet,

gas and electric lighting, tile work, metal ceilings. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Residences (3), Jackson street, Wilmington, Del. \$6,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 2½ stories, 17x26 feet each, slag roof, hot air heating, gas and electric lighting. Contract awarded to Egbert Nutter, 6 West Thirtieth street, Wilmington, Del.

Residence, Greenville, Del. \$40,00. Architect, F. Verpillieux, Dumont, N. J. Owner,

Julien Ortiz, Wilmington, Del. Brick and rough cast, 3 stories, 70x60 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work, cabinet work. Contract awarded to John F. Davies, Heed Building, Phila., who is taking bids.

Residence (alt. and add.), Garage and Power House, \$15,000. Architects, Stearns & Castor, Stephen Girard Building, Phila. Owner, Mrs. J. P. Wetherill, 2014 Walnut street. Brick, 2 ½ stories, slate or asbestos shingle roofs, hardwood floors (heating and electric power plant reserved by architects). Contract awarded to John F. Davies, Heed Building, Phila.

Race street. Cost, \$5,800. Convent, Eighth and York streets.

American Express Co. (O), North American Building. A. H. Williams & Sons, 419 Locust street. Cost, \$1,500. Offices, 1127 Chestnut st.

Franklin Trust Co. (O), Fifteenth and Market streets. J. N. Gill Co. (C), Heed Building. Cost, \$5,000. Stores, Hutchinson street and Columbia avenue.

Mrs. J. M. Taylor (O), 1504 Pine street. S. J. Glenn (C), 1630 South street. Cost, \$1,100. Dwelling, 1504 Pine street.

H. P. Porter (O), 318 West Johnston street. J. B. Flounders, 1329 Arch street. Cost, \$3,000. Residence, 318 West Johnson street.

Mrs. W. Logan Fox (O), Seminole avenue and Graver's lane. Pringle Borthwick (C), 8018 Germantown avenue. Cost, \$2,000. Garage, Seminole avenue and Graver's lane.

Young Women's Union (O), 427 Monroe street. James Connor (C), 2848 Frankford avenue. Cost, \$1,725. Nursery, 427 Monroe street.

J. M. Bruner (O), 4515 Girard avenue. R. K. Grice (O), 255 North Fifty-second street. Cost, \$3,000. Garage, 5510 Chestnut street.

S. Steinberg (O), 1906 Susquehanna avenue. M. J. Benamy (C), 3042 Laurel street. Cost, \$4,700. Store and dwelling, 1906 Susquehanna avenue.

Dreka Co. (O), 1121 Chestnut street. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$4,000. Store, 1121 Chestnut street.

Board of Education (O), City Hall. Mitchell Bros. (C), 2125 Race street. Cost, \$3,700. School, Ninth and Tasket streets.

Weightman Estate (O), 1524 Chestnut st. J. T. Talley (C), 1931 Marke street. Cost, \$18,000. Manufacturing Building, 1010 Race street.

Board of Education (O), City Hall, Phila. W. W. Anstine Co. (C), 1214 Filbert street. Cost, \$6,705. School, Fourth and Dauphin streets.

J. P. Mathew (O), 6823 Jackson street. George Baylie (C), Camden, N. J. Cost, \$2,500. Dwelling, Wills street and Frankford avenue.

M. A. Hayes (O), 108 East Price street. M. L. Conneen & Co. (C), 2015 Cuthbert st. Cost, \$3,000. Dwelling, 108 East Price street.

H. Loeb (O), Thirty-third and Master sts. Cost, \$2,000. Storage, Thirty-third and Master streets.

G. M. Smith (O), Overbrook, Pa. M. W. Young (C), Overbrook, Pa. Cost, \$2,000. Garage, Overbrook, Pa.

A. A. Hirst (O), Twelfth and Chestnut sts. D. W. O'Dea (C), 5219 North Fifth street. Cost, \$1,800. Store and dwelling, 2415 Kensington avenue.

Board of Education (O), City Hall. Mitchell Bros. (C), Cost, \$6,400. School, Twelfth and Federal streets.

Miss Helen Bartene (O), Byberry, Pa. W. D. Buber (C), Somerton, Pa. Cost, \$1,500. Residence, Byberry, Pa.

Old Men's Home (O), Thirty-ninth and Baring streets.

Harrison Safety Boiler Co. (O), Seventeenth street and Allegheny avenue. Harry Gill (C), 2515 Germantown avenue. Cost, \$1,400. Manufacturing building.

Louis Fanelli (O), 709 Kater street. Brenboli & Gentili (C), 725 Kater street. Cost, \$2,675. Residence and stable. Cost, \$2,500. 717 Bainbridge street.

L. Cohn (O), 1206 North Eighth street. Cost, \$2,000. Factory, 1206 North Eighth st.

R. T. Milner & Son (O), 1319 Point Breeze ave. H. F. Dillon (C), 1222 South Twentieth street. Cost, \$1,360. Store and dwelling, 1319 Point Breeze avenue.

Estate of H. F. Baker (O), 1818 Spruce st. F. T. Mercer Co. (C), 1706 Delancey street. Cost, \$2,470 Office building, 1520 Chestnut st.

E. Flanagan (O), 2541 North Ninth street. Cost, \$2,000. Dwelling, 2538 Coral street.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

U. G. I. Co. (O), Broad and Arch streets. Charles Gilpin (C), Harrison Building. Cost, \$20,000. Storage, brick, 2 stories, 108x39 feet, Delaware avenue and Tioga street. Cost, \$25,000. Sub-Station, Westmoreland street and Germantown avenue.

A. S. Tourison, Jr. (O), 7014 Boyer street. Cost, \$10,500. Residence, stone, 3 stories, 51x30 feet. Sedgwick avenue and Crittenden streets.

T. W. Evans. Museum (O), Philadelphia. James G. Doak & Co., Crozer Building. Cost, \$65,000. Power House, brick, 1 story, 50x75 feet, Fortieth and Irving streets.

Mark Haller (O), 2122 South Eleventh st. Cost, \$32,400. Eighteen dwellings, brick, 2 stories, 15x26 feet, Second street and Snyder avenue. Cost, \$3,600. Two dwellings. Cost, \$5,400. Store and dwelling. Cost, \$4,000. Store and dwelling. Cost, \$3,000. Store and dwelling.

F. W. Platt (O), 5228 Locust street. Cost, \$4,000. Two dwellings, brick, 2 stories, 15x40 feet, Fifty-fourth street and Larchwood avenue. Cost, \$40,000. Twenty dwellings.

John Kerwell (O), 3154 North Broad street. H. P. Schneider (C), 3713 Old York road. Cost, \$20,000. Theatre, brick, 1 story, 63x66 feet, 2640 Kensington avenue.

H. R. Backingt (O), 765 Manatawna avenue. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x44 feet, 756 Manatawna avenue.

J. Sherman (O), 4938 Parkside avenue. Cost, \$7,000. Ten dwellings, brick, 3 stories, 16x36 feet. Fifty-first street and Parkside avenue. Cost, \$1,100. Store and dwelling. Cost, \$33,600. Eleven dwellings.

J. W. Orr (O), 3532 Kensington avenue. Cost, \$37,500. Fifteen dwellings, brick, 2 stories, 16x48 feet, Torresdale, Phila.

Archbishop E. F. Predegast (O), Eighteenth and Race streets. W. J. McShane (C), 417 South Thirteenth street. Cost, \$28,765. Church, stone, 3 stories, 50x42 feet, Twenty-eighth and Diamond streets.

W. & C. Bechtold (O), 803 Girard avenue. George Kessler Construction Co. (C), 931 Drexel Building. Cost, \$15,000. Laundry, brick, 1 and 2 stories, 174x142 feet, Fox and Clearfield streets.

J. Grenspan (O), 4923 North Broad street. Cost, \$10,000. Four dwellings, brick, 2 stories, 15x62 feet, Twenty-third and Cambria streets. Cost, \$3,500. Store and dwelling.

W. Fischer (O), 3621 North Fifth street. Cost, \$2,000. Store and dwelling, brick, 2 stories, 15x44 feet, Franklin and Bristol sts. Cost, \$1,700. One dwelling. Cost, \$13,600. Eight dwellings. Cost, \$4,000. Two dwellings.

R. E. Rahn (O), 410 Walnut street. Gartner (O), 1700 South Fifth street. Cost, \$15,000. Ten dwellings, brick, 2 stories, 16x32

feet, Sixty-first and Yocum streets.

J. E. Rafferty (O), 4128 North Broad st. Cost, \$20,825. Seventeen dwellings, brick, 2 stories, 14x26 feet, Westmoreland and Willard streets.

St. George's Church (O), Sixty-first street and Cedar avenue. J. C. Driscoll (C), 613 Hale Building. Cost, \$10,000. Parish House, stone 1 story, 52x58 feet, Sixty-first street and Cedar avenue.

J. M. Mitchell (O), Forty-sixth and Market streets. Cost, \$3,00. Dwelling, brick, 2 stories, 15x42 feet, Fifty-third street and Cedar avenue. Cost, \$17,500. Seven dwellings.

H. F. Ketterman (O), 2434 West Clearfield street. Cost, \$25,000. Fourteen dwellings, Brick, 2 stories. 16x33 feet, Sixteenth street and Indiana avenue.

Louis Laib (O), 6638 Torresdale avenue. Cost, \$7,200. Four dwellings, brick, 2 stories, 16x38 feet, Marsden and Unruth streets.

M. Koedder (O), 6127 Vine street. Schreiber & Steinhauser (C), 5424 North Fifth st. Cost, \$4,000. One dwellings, brick (2 stories, 16x65 feet, Fifth and Olneys streets.

A. Fox (O), 7100 Gray's avenue. Cost, \$8,000. Four dwellings, brick, 2 stories, 16x40 feet, Seventy-first street and Gray's avenue.

Charles Lentz & Sons (O), Seventeenth and Ranstead streets. James G. Doak & Co. (C), Crozer Building. Cost, \$35,00. Manufacturing building, brick, 5 stories, 45x52 feet.

Alterations and Additions

Women's Hospital (O), Twenty-second st. and North College avenue. F. T. Mercer co. (C), 1706 Delancey street. Cost, \$15,000. Hospital, Twenty-second street and North College avenue.

E. P. Cheyney (O), 259 South Forty-fourth street. J. E. Walt (C), 204 East Willow Grove avenue. Cost, \$4,000.

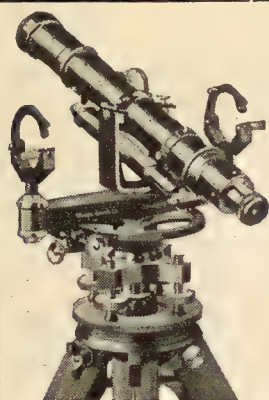
J. Clegg (O), 2336 North Fifteenth street. T. Matthews & Sons (C). Cost, \$1,736. Dwelling, 1416 Columbia avenue.

Kaiser & Schwartz (O), 326 South Fifth st. S. Yellin (C), 616 North Seventh street. Cost, \$1,700. Stores, 1232 South Fourth street.

St. Paul's P. E. Church (O), Broad and Venango streets. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$2,500. Church, Broad and Venango streets.

Dorner & Tretbar Co. (O), Camden, N. J. Ed. Gaschke (C), Collingswood, N. J. Cost, \$1,000. Manufacturing building, Front and Venango streets.

St. Edward's R. C. Church (O), Eighth and York streets. J. McKenna & Sons (C), 1032



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PHILADELPHIA

BUILDING CONSTRUCTION IN THE XVI CENTURY

Have we, of the steel-concrete age, anything to learn from the builders of the sixteenth century, or are the principles of their work so obsolete as to make the consideration of them a mere waste of time? At first it may appear to most of us that a survey of building methods now four hundred years old would not disclose anything likely to be of value to us; but, if this was really so, possibly, in the course of our search, we may, at any rate, discover something it would be well to avoid. The reader of a paper at one of the professional societies' meetings certified that we had much to learn from Vitruvius; but we do not propose to go back so far. About sixteenth century construction our chief authority must be Palladio, and he appropriated the practical knowledge of Vitruvius and assimilated most of it. No matter how the centuries may pass, or how many, building methods persist unchanged. The stones on the Egyptian pyramids, like those in the Coliseum, testify to the fact that in working and in laying them the same methods were pursued as those we see practiced to-day. The means of transport and of scaffolding alone have undergone a radical change. Even concrete, which many of us think a modern building material, is not so, for it was used for walling over two thousand years ago, the loose wet material being thrown between planks and rammed, as it is to-day. We make it with a rapid-setting cement, and enwrap steel bars with it, and that is all the difference. Some of the concrete made by the Romans in this country is now as hard as we may expect Portland cement-concrete to become. In the old walls of Verulamium we find it impossible to pick out a pebble. This induration, so unexpected, would lead us to suppose that some other material rather than chalk lime had been used in the work, probably puzzuolana; but, if so, it must have been brought to this country from Germany or Italy.

The notions entertained about timber in these olden times were strange. The trees which furnished it were to be felled when the moon was in the last quarter; otherwise the material would engender worms, which would rot it. Of course, this plague came from a certain moisture which was found in the wood during the time of the full moon.

The timber was also to be cut in the winter season, for this strange reason—namely, that in the autumn and winter the trees have a vigor conveyed to them from the root, which in summer is dispersed among the leaves. As, with the exception of our native oak, all our building timber is felled abroad, we have no control whatever over the time of its being cut down, and know nothing about it except that the work is amenable to the strictest forest laws. We go on using this foreign timber with a full knowledge that we cannot control the time of its being felled in any way. What, then, concerns us most in this matter? Surely that when timber is cut down for building, there should be as little sap as possible circulating in the tree, for this sap affords nutriment for all micro-organisms which prey on wood, and they give rise to what is commonly known as dry-rot. If an architect's specifications were carried out, and no timber used in building but heart-wood, then it would make little difference when the wood was felled, for sap circulates only in the sap-wood.

But, unfortunately, nearly half our best timber is sap-wood, through which the sap circulates freely. It is, then, of vital importance the tree should be felled when the sap is not rising, and there are no leaves on it. "Dry-rot" is easily cultivated. One or two important new buildings have been destroyed by it lately, and the wonder is that so many escape, the favorable conditions for its development being present in so many cases. Does anyone wish to know what it is like, and what its effects are? Then all that is necessary to produce it from ordinary building timber is to enclose the timber in an air-tight space where there is moisture in the air and no draught. Then, in a few months, the timber will be in a fair way to be destroyed, if the temperature is much above freezing. Lay a floor on the ground-level with ordinary joists and boards, provide no ventilation under the floor, and cover the boards on the top with any impermeable material, and in less than two years the legs of chairs, or bedsteads, will go through the boards, which have no more power of resistance than a boiled carrot. The wood in a first floor, if it is not well ventilated, will fail in the same way, and the architect should

ever be on the lookout that where wood is in his building there is a thorough circulation of air.

Sap-wood always contains much sugar and starch; these are soluble in water. Micro-organisms thrive and flourish in solutions of them, and these organisms attack the wood fibre, even that of the heart-wood itself, and it is only a question of a very short time when this so-called dry-rot will spread through the whole building. The ventilation of the ground floor joists and boarding is a comparatively easy task, for all that has to be done is to put air-bricks in the outer walls, taking care that any partitions which may intercept the air current and cut it off from the opposite outer wall are bored through, so as to secure, if possible a strong draught across the timbers. The ventilation of the first floor is, however, not so easy, for as the joists, in a single floor, are boarded above and ceiled below, an air-brick can only ventilate the space between two joists, or the side of one joist, depending on the way the joists run, and the position of the air-brick. Then a few holes bored through each joist will answer the purpose, for the plaster ceiling itself is porous, and there is no damp in the floor except that brought there by unseasoned timber, while in the lower floors damp continues to rise from the soil, or from concrete, as the case may be. Timber is not like steel or concrete; these do not usually decay. So it is necessary to its stability in a building that the architect should understand its structure and its capabilities. In some old floors, where there is sap-wood in the boards, it will be worm-eaten; the same may be said of sap-wood in joists, rafters, and main beams. This kind of rot is found in wood a hundred years old or more, and it may be called dry-rot, to distinguish it from that produced by moisture. This latter occurs at once when scantlings are thrown in a heap in an exposed place and left there, and the occurrence of the usual form of "dry-rot," but in reality wet-rot, so well known to architects and dreaded by them, sets in under favorable sap-wood will, if exposed to the weather, decay rapidly, it will, if painted when dry, and kept painted every three years, last for one hundred years or more. Old paneled outside doors taken down in Chancery lane, from houses where the Record office now stands, had framing 3 inches thick, raised panels, and heavy mouldings, and all were sound as the day they were hung, both sap-wood and heart-wood, but they were covered completely by at least three separate hard layers of paint.

It is usual when painting an outside door to burn off the old hard paint of the previous coat; but this is a mistake, and the durability of the wood is here sacrificed to the pride of the painter in keeping sharp arrises and re-entering angles on the mouldings. In the sixteenth century it was usual to daub freshly felled trees all over with cowdung, to prevent them splitting. Any of our readers who have visited the Surrey Commercial Docks will recollect seeing logs from Riga and Dantzic floating in ponds made specially

(Continued on page 405.)

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Editorial Comment

When a few weeks back the "Guide" sounded a note of warning to the composition roofing interests of the country to organize in resistance to the new State Factory Law in New York State, many of the biggest concerns in the trade sent in orders for extra copies of this magazine. That the slag, gravel and composition manufacturers were amazed at the "Guide's" revelation of the little "snake" inserted in the new factory law is to state the case very mildly indeed. Many of them were quite astounded at the temerity of the metal roofing outfit in attempting to put through a deal so raw and palpably unfair. For the benefit of those who did not happen to see the "Guide's" original reference to the subject, we will repeat that under the provisions of a clever little joker sneaked into the new Factory Law in New York State, factory buildings of more than one story in height may be roofed only in metal. The language of the joker calls for "incombustible roofing," a proviso interpreted by the State Department of Labor as interdicting the use of slag, gravel or composition.

That the effort to have this cute, little legislative enactment stand is an organized and concerted one, backed by the sheet metal interests of the country, and one which it is the intention of its promoters to extend with the assistance of State organizations throughout the country, is shown by certain references in "Sheet Metal"—generally regarded as the official mouthpiece of the tin roofing contingent.

* * *

"The situation regarding the New York State law requiring incombustible roofing for factory buildings is practically unchanged," comments "Sheet Metal." Under its provisions the gravel and slag roofers have lost a large amount of business, as the State Department of Labor does not now approve composition roofs on factory buildings of more than one story in height.

"Strong influence is being brought to bear to have the law so altered as to permit composition roofing. While some attempt has been made by those interested in tin roofing to convince the Labor Department that the law should remain as it now stands, no general campaign has as yet been waged.

"E. L. Seabrook, the National Secretary, will doubtless 'get busy' when the National Convention is over.

" 'Sheet Metal' believes that a good State organization could wield a strong influence on the Department of Labor and on the Legislature.

"The trade is now awake to the importance of action. While certain movements have been talked of, it seems wiser at the present time not to give publicity to these until they are actually under way, as premature announcements are sometimes detrimental. It

may be said, however, that the manufacturers, the jobbers and many contractors feel the necessity for some kind of action.

"At the present time, the sheet metal contractors are putting on tin roofs and giving the tar kettle a rest."

* * *

Editorially the same magazine observes:

"The New York State law requiring a roof of incombustible material on factory buildings of more than one story in height, and brought to the attention of the trade in the May issue of 'Sheet Metal,' is being severely attacked by the composition roofing interests. A strong effort to have the law amended to better suit the gravel and slag roofers has been started, and apparently has a good chance for success.

"The contractors and tin plate interests have not as yet taken any united action to resist the attempt to have the law changed. Edwin L. Seabrook, the National Secretary, has signified that he will give the matter his best attention. There are others interested in this matter, and it is not unlikely that a strong fight will be made at the proper time to defend the incombustible roof.

"A State organization of contractors would be of great service in this matter. As to whether the already organized contractors desire such an organization is believed to depend on the action taken at the National Convention regarding the relations of State associations to the National. The present situation regarding this roofing law seems to demand an organized State effort, which if backed, as it surely would be, by the loyal support and co-operation of the National Association, would be able to make the demands of the contractors more effective than if made by the National alone.

" 'Sheet Metal' would respectfully suggest to Mr. Seabrook that steps be taken at once to organize the New York State Association of Sheet Metal Contractors."

* * *

Mr. H. N. Taylor, of the N. & G. Taylor Company, of this city, in the course of a communication remarks:

"I have read the article on the fireproof roof law for factory buildings in your May number, naturally, with a good deal of interest.

"This agitation ought to do some good, although it raps the poor manufacturer rather sharply over the knuckles. Your roofer-correspondent should consider that the tar and gravel roofing trade is completely dominated by one large combination or trust, and the aggressive advertising for tar roofing has been carried on almost exclusively by one concern.

"Tinplate manufacturers, on the other hand, are numerous, and sharp competition has not served to bring them close together. Any one who has had the slightest experience

with organizing a number of competing interests knows how difficult a task it is to get them to unite upon some common invading interest.

"Plans are now being considered for a united movement on the part of the sheet metal interests, and I hope that something will come of this."

* * *

The "Guide" holds no brief for either of the parties to this interesting little disagreement. But knowing the merits of slag and composition roofing, its ability to withstand acids, atmospheric changes, wind and wear, as well as its fire-resisting qualities if properly applied, the "Guide" has felt it to be a duty to rouse the composition contingent to action with a view not merely to preventing the success of the little joker in New York States—relatively important in itself,—but to check its duplication in similar enactments throughout the remaining States of the country. New York in the present instance is but the entering wedge.

The "Guide's" objection is to specification by legal enactment. The good, old established method of leaving the decision in such cases to the architect appeals to the "Guide's" sense of the eternal fitness of things. Legislative roofing is not, as we see it, the best obtainable kind of roofing, whether for a factory building or a plain city hall. Moreover, the roofing that can't stand on its own merits unsupported by snaky devices of this New York variety can hardly expect to find a large measure of popular credulity waiting on the exaggerated claims made in its behalf.

* * *

The average rate of wages per week in forty of the leading cities of the United States for more than sixty of the principal industries was higher on May 15, 1913, than on May 15, 1912, with the single exception of the mill work carpenters, which showed no change, says a statement just issued by the Bureau of Labor Statistics.

The greatest increase was for marble setters, which was 6.6 per cent.

Of the more important trades, the following increases in weekly rates of wages between May, 1912, and May, 1913, are given:

	Per Cent. Increase.
Bricklayers	1.7
Carpenters	1.7
Hodcarriers	1.3
Painters	4.2
Plasterers	1.0
Plumbers and gasfitters.....	3.1
Structural iron workers.....	2.6
Stonecutters	2.2
Iron molders	5.3

The highest scale per hour paid in May, 1913, in the above trades were as follows:

Bricklayers, 87½ cents, in Dallas and San Francisco.

Carpenters, 65 cents, in Chicago.

Hod carriers, 50 cents, in Portland, Salt Lake City and San Francisco.

Painters, 65 cents, in Chicago.

Plasterers, 87½ cents, in San Francisco.

Plumbers and gas fitters, 81¼ cents, in Seattle.

Structural iron workers, 75 cents, in San Francisco.

Stone cutters, 70 cents, in Portland.

Iron molders, 50 cents, in San Francisco.

The Bureau showed that thirty-four trades showed a reduction of hours between May, 1912, and May, 1913, twenty-eight reported no change, and one reported an increase.

* * *

An address delivered by Hon. Robert Adamson, Fire Commissioner of New York City, at the first day's session of the Convention of the National Association of Manufacturers, presents some striking and significant data touching the cause and responsibility for fires in that city.

"You may be interested to know," said Mr. Adamson, "that last year out of about 12,000 fires in the city, I believe there were only 260 that occurred in factories; but there were something like 3,700 that occurred in the homes of the people. And an analysis of the figures shows that they occurred from these simple acts of carelessness which I have recited.

Some of the causes of the fires I can give you here.

1,072 fires were due to carelessness with cigars and cigarettes.

1,175 fires were due to carelessness with matches.

1,058 fires were due to street bon-fires.

753 fires were due to carelessness with gas ranges and radiators.

696 fires were due to overheated flues, stove-pipes and furnaces.

703 fires were due to failure to keep chimneys clean.

588 fires were due to children playing with matches or fire.

351 fires were due to carelessness with candles.

394 fires were due to igniting vapors from benzine orgasoline.

311 fires were due to mischievousness.

And it cost the City of New York Fire Department every time one of those fires occurs, that is, the cost of wear and tear of machinery and fuel and service of the firemen, so that you can see that figured—you can see that it amounted to a great deal to the taxpayers, not to mention the great loss of property represented by those fires, and those fires which I have just enumerated, carelessness fires and negligent fires, were responsible perhaps for three-quarters of our loss of more than \$9,000,000 last year in this city."

Mr. Adamson makes the claim that nearly every fire that has occurred in this country in the last few years can be traced to some act of carelessness.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

BUILDING CONSTRUCTION IN THE XVI CENTURY.

(Continued from page 403.)

for the purpose, and this to prevent them splitting; a more modern way of saving the logs than "rendering" them with cowdung. That timber should not be drawn in the morning dew seems fanciful; not so, however, that it must not be worked if it is wet—a precaution which presents itself to the merest tyro in building as being reasonable. It was considered that timber would not be fit to cut into "planks, doors, and windows," under three years, for it will be liable to rot if it is. Our foreign-sawn scantlings will then have a poor chance, for many are worked into carpentry within twelve months after they have left the forest.

Palladio gives those about to build rather good advice in this particular. He says: "Such persons as propose to build ought to advise with such as are well skilled in timber, and inquire into the nature thereof, and what kind is fit for such and such particular uses." When one recollects what a quantity of water there is in the walls and plastering of every house, and that seasoned wood, which is porous, is fixed sometimes in contact with these, the wonder is that there are so few cases of dry-rot in buildings; and that it is so is more the result of accident than design. We repeat, that wood is about the most dangerous material which the architect can introduce into his buildings, and it is incumbent on him to follow Palladio's advice in the matter as to its selection and seasoning. Take floors, for instance. Our specifications usually provide for the joists being spaced 12 inches apart, or 12 inches from center to center; but what would be thought of an architect who specified that the space between the joists must be the breadth of one joist and a half? Yet this was the sixteenth century way of framing floors to chambers and halls. Our floor joists are usually too narrow and too deep, and this fault is so well understood that we fix rows of herring-bone strutting through them at about every 6 feet

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apart, these again being stiffened with a wrought-iron rod, which is threaded through each joist, and screwed up tight against the outer two. We have often thought that these stiffenings are of not much use, for the joists shrink in thickness, and the strutting shrinks too. Then, as the wrought-iron rods are never tightened up, after a year or two the whole of this framing must be loose. It is not easy to see how it can be avoided. Fixing solid blocks between the joists will not do it, for they get quite loose, and fall on the ceiling. Here the resources of the present day come to our aid, for with rolled steel joists we can make a floor stiff enough to carry any weight without deflection. We have always found, no matter what scantling we made floor joists, that if the span exceeded 6 feet or 7 feet, the floor sagged after some time. With 11-inch by 4-inch joists across a span of 18 feet, the deflection, after twelve months, was $\frac{3}{4}$ inches, and this necessitated their being taken out and turned upside down; so that when the span of a floor exceeds 12 feet it should, if the joists are wood, be supported by a rolled steel joist.

The next material we have to deal with is stone, and this was supposed to be natural or artificial, the former being used for making lime, and the latter we now call brick. They were made of chalky, whitish, soft earth, cleared of clay and sand. The earth was to be opened in the autumn, tempered in the winter, and made into bricks the summer following—a process closely followed at present where hand-made bricks are produced. To dry the bricks of this period took two years; for, when moulded, they were set in a shady place, so that they might dry equally inside and outside without cracking. According to the importance of the building, and the uses to which the bricks were to be put, they were made larger or smaller, "according to the custom of the Ancients"—a bricklayer

would think a most inconvenient custom, and one that would lead to an immense amount of confusion in working the courses and bonding the bricks. It was usual when bricks were made thicker than usual to have holes made through them in several places, that they might dry and burn better. Of course, these holes appeared only in the beds of the bricks, as they do in our modern ones. Some short time since we drew attention to the desirability of working Bath and other oolites when they had the quarry sap in, and it is singular Palladio should specify that free stones, or what he calls "live" stone, should be wrought as soon as it is dug up. We are fully satisfied of the necessity there is for working the softer limestones as soon as they are quarried; but old quarrymen in the harder stones, such as the carboniferous limestone, have assured us that they work as easily and as well when they have been quarried some time, and are as durable as if they were worked from the green stone. In the case of the softer and more porous limestones, the quarry moisture containing calcium carbonate in solution evaporates, leaving a protective skin of that mineral on the surface of the stone, and, of course, in a crystalline condition; but no such process takes place with the harder limestones. At least, if it does, we have not been able to trace it. Architects in the sixteenth century had to guard against bad "weather" stones, as we have, for they dug or quarried stone in the summer, and sheltered it from the weather until it hardened by degrees, so as to stand the shocks of the most violent tempests, any waste or imperfect stone being disposed of in the foundations.

Sand was known under its three divisions, as at present—namely, pit-sand, river-sand, and sea-sand, the first being considered the best. Pit-sand, we are told, makes a "tenacious cement." If so, it could not have been clean, for all clean sand is "short," as well as the mortar made from it; but this tenacious cement was recommended for long vaults, and raising walls, though we are told that it cracks. The young architect may, however, learn from Palladio what good sand is, and the definition cannot be bettered now. Here it is: "That sand is best which, when bruised between the fingers, makes a crackling noise; or if, when laid upon any white substance, neither fouls nor stains." Sand which when mixed with water makes it thick and muddy, is bad, because it retains a considerable quantity of earth and rotten vegetable matter, which brings forth plants which are of great prejudice to a building.—"The Building News and Engineering Journal," London, England.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

HASTE IN BUILDING.

The modern tendency toward haste in building construction appears to have reached its consummation in the recently reported feat of erecting a two-and-one-half-story residence, from the cellar excavation to the final plaster coat, within twenty-four hours. From three to four hundred men were employed on the premises simultaneously and every time-saving device known to the builder's trade was utilized. In accomplishing this unusual enterprise the contractors must have had the same sensations that an architect feels in attempting to perfect designs for a prospective building within the time allowed by an eager client.

When an experienced business man urges that building operations be started, by contract, on a large apartment house within three weeks from the making of the first sketches, there is good opportunity for the architect to do some much-needed educational work. To tell his client the truth at the outset rather than entirely evade the issue will forestall much ultimate disappointment on the part of the owner and relieve the architect of the odium that attaches to supposed tardiness. To take an inexperienced client "behind the scenes" and give him some idea of the amount of time needed for perfecting the details of his commission is missionary work worthy of a busy architect's consideration, for it may dispel the popular idea that the work is principally pictorial and may be readily done by a clever draftsman in a few hours.

Very few things worthy of perpetuity in art or architecture have been accomplished when speed was the controlling factor. Doubtless the ceiling of the Sistine Chapel could have been decorated within six months, but Michael Angelo would not have cared to sign it as his own. The artist's or architect's function is creative, and such creativeness generally cannot be hurried if the best results are to be gained. The use of mechanical contrivances for lessening the labor of building operations, and the rendering of skill in the drafting room more efficient by wise organization, are legitimate and generally desirable, but to allow too short a time for creating the design or directing the work is to render uncertain results which might otherwise be thoroughly satisfactory. When the exigencies of the case demand, as in the recent erection of a notable bank building in New York, architects have frequently shown a spirit of accommodation in accelerating the work that was equaled only by the excellence of its performance. It is unreasonable, however for a client to ask an architect to do every day that which is justified only in emergencies.—"American Architect."

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

Many a man has a "Do It Now" motto over his desk and cobwebs on his brain and dust on the desk.

THE RENAISSANCE OF WOOD

When the ringing blows of the settler's axe first resounded through the unmeasured forests of our Atlantic coast, there was no time, facility, or opportunity, for the colonist to pick or choose the kind of lumber which he would utilize.

The need for protection from the elements was pressing, but the flame of love, of home, and freedom burned high in the hearts of these men and women. How could it be otherwise with those who so idealized freedom, and liberty, and conscience, that in order to maintain these ideals, they were willing to attempt the gigantic task of taming a trackless wilderness?

It is therefore not surprising that with the pressure of sore necessity these people should have established a beauty of expression in their simple and substantial architecture that even to-day stands as one of the finest expressions of all that is conveyed by that wonderful word "home."

That these men built well, and of good material, is evidenced by the fact that much of their handiwork is still standing in all of its original rugged strength.

The centuries of the early settlement of this country, however, were necessarily centuries in which utility was the controlling and dominating factor.

As the settlement of the country grew in great sweeping areas, the great forests were cleared to make room for the plow, and the product of the axe was utilized for all forms of buildings, although this use was mainly expressed in rough and ready and wasteful ways.

Early Building Conditions.

Always there was ample room to spread, building was close to the ground, until in the last half century the march of progress began to centralize our commercial operations and great cities with their congested areas and enormous land values were beginning to be established.

Building began to go up into the air. The inventive genius of man was put to work to solve the problem as to how, within a narrow and limited area, great warehouses could be established, each one of them carrying within its walls values in stocks and merchandise greater than had previously been carried within the confines of an entire city.

Great populations had to be housed close to these teeming markets. And so we arrived at the era of the skyscraper, and in the towering flat building or tenement house we came back in another form to the habits of the ancient cave-dweller.

In our natural admiration for these great piles, standing as monuments to our wonderful commercial progress, our people lost, in a measure, the high idealism of home. We began to think that business was the Alpha and Omega, that where, or how, or in what surroundings we lived, was only incidental

to the necessities of close contact with "business."

The tender ideal of home was crowded out, or where it still lingered, it carried the impress of this spell of commercialism, and even our dwelling houses were built from a commercial standpoint, and in imitation of the methods and materials and expressions of our great business institutions.

Under this movement, lumber, the material through which for centuries before our people had expressed their ideals of home, the material of living growth and natural beauty was also to an extent crowded out and the force of its wonderful charm, as well as its plastic investment value, was lost to much of our home architecture.

And now the pendulum is swinging back. The conditions are changing. Our people are again realizing that home life is the highest expression of human civilization. Our people are again coming back to the land, establishing their homes among the flowers and trees, and getting into the open.

New Methods.

Lumber in its new forms, with our added knowledge of how to differentiate the characteristic virtues of various species of trees, and thereby more intelligently apply each to its own best usage, is again finding a steadily widening preference, as well befits the material, which, since Noah built his Ark of wood, has been described as "the instinctive reliance of mankind," when the comfort of his flesh is threatened by the elements and when the hope of his heart flows toward home building.

We have found new and simpler ways of treating wood, which do not conceal but which rather emphasize its naturally rugged yet delicate beauties.

We have even carried this expression into our great commercial buildings, and rely upon the wonderful, natural properties of wood to give warmth and tone and artistic expression within the walls of our commercial institutions.

Ground into pulp, wood forms the daily newspaper.

In the form of building known as "mill construction," wood is increasingly employed as the structural framing of factories and office buildings up to eight stories high, with exterior walls of stone or brick.

Above and beyond all, under modern methods of handling, wood produces for us an ideal expression of home, and lends to that expression a warmth, sweetness and hospitality, and a human sentiment, unequalled by any other material with which men may construct homes for the shelter and comfort of themselves and their families. It is true that there are alternatives for wood, but, by a proper definition, there is no "substitute."—R. H. Dowman in "House Beautiful."

SINKING SKYSCRAPER FOUNDATIONS UNDER A HOTEL.

A very interesting piece of work is now in progress on the site of the Victoria Hotel which covers the south side of the block on Twenty-seventh street from Fifth avenue to Broadway, New York City. The work consists in sinking the foundations for a 20-story skyscraper before the old hotel building on the site has been removed. The usual method of procedure has been to entirely demolish the old building and remove the debris before commencing work upon the foundations for the new structure, but here caissons were sunk and for several months the human ground-hogs have labored far below the street level. The present is probably the first instance where the foundations for a new building have been sunk simultaneously with the wrecking of the old structure. The reason for the present method of procedure was to save valuable time on the part of the contractors putting in the foundations. Until the new building is erected the syndicate will lose hundreds of dollars a day in carrying charges and every effort will be made to finish it in time for a renting season. The problem that confronted the contractors, therefore, was to have the building completed as near a renting season as possible and if time could be saved on foundations the building would be made ready for occupancy by January of the coming year.

The problem was laid before the engineers of the Underpinning and Foundation Company who had not before built a foundation under just such conditions as those described. They solved the problem by deciding to sink reinforced concrete piles grouped together in such a way as to constitute 63 piers. Many obstacles confronted the workmen after operations were commenced, for five feet under the Fifth avenue end of the hotel a small stream of water was encountered. It is an arm of a brook that wormed its way through the north end of Madison Square Park and the East Side, entering the East River at First avenue and Seventeenth street, which is now two blocks from the river's edge. At the Broadway end of the hotel site rock was encountered, so blasting had to be resorted to. This was a delicate operation as much of the hotel is suspended on beams and a heavy charge would have brought the seven-story building down upon the men at work below.

Operations in sinking the piles began the second week in March. Each steel shell of a pile is 12 inches in diameter and 50 feet in length and these were slid through the store windows on the Fifth avenue end of the building and then through a wide opening in the floor down to the cellar. There are 680 of these piles which are being sunk to bed rock by means of a 3,000-pound steam hammer. At many points the bed rock is 50 feet below the surface. The piles are grouped in piers of from 9 to 14, according to the weight the pier is expected to sustain, and there will be 63 of these piers on which the skyscraper will rest. Each pile is capable of sustaining 100 tons with safety and the 680 will therefore sustain a load of 68,000 tons.

When the piles have been driven to bed rock they are cut off at the proper distance from the top by an oxy-acetylene torch about a foot from the bottom of the 10-foot pit which had been dug before the pile was driven, after which they were cleaned out by means of compressed air working under a pressure of 150 pounds per square inch. After the shells were cleaned out three steel rods, two inches square were set in the pile and the latter filled with concrete from a large mixer set up in the wine cellar of the old hotel. After pile had been filled the pit was also filled with concrete intersected every half foot with a row of steel beams, each row running at right angles to the other so as to form a substantial grillage.

In doing the work the old hotel plant supplied the steam for the steam hammer and all the electricity used for lighting and power while the operations were under way

FIRE INSURANCE AND CHIMNEYS.

"Is there a specific ruling by the insurance underwriters to the effect that houses with concrete chimney and terra cotta flue linings are a greater risk and therefore call for a higher rate of insurance on the house in which they are?"

A recent personal experience brought out the fact that this kind of construction in a house, two stories of which were of solid concrete and the third story of stucco, necessitated a rate of 25 cents per \$100 higher than if the chimney had been built of brick. I can understand the reasonableness of the objection to a concrete and terra cotta chimney, due to the probable uneven expansion and contraction of the materials, but I will thank you to tell me if you know of any reason why concrete alone should not be accepted on equal terms with brick for chimneys. My own personal judgment would much prefer it to the latter, even to the extent of paying a higher premium, in that when it is cast and once up, the possibilities of any cracks or openings occurring are very remote, while in brick chimneys I consider that it is almost a probability that eventually there will some defect appear whereby the danger of fire will be increased, due to the many joints in laying the brick.

Discussed by Ira H. Woolson, Consulting Engineer.

Discussing the above question, I would say that I have been unable to learn that the insurance companies in this vicinity make any rate discrimination as between concrete and brick chimney construction of equal thickness and lined with terra cotta or fire clay flue lining.

Your correspondent, however, is mistaken in his assumption that concrete chimneys, because a monolith in construction, do not crack. I have had considerable experience with such chimneys in high temperatures, and know that they almost invariably crack, and I am informed by insurance inspectors that they have frequently considered it necessary

to require the repair of concrete chimneys which they have found to be cracked. The tendency of such cracking would undoubtedly be less in a dwelling house chimney than in a chimney for a factory or similar installation where hot fires were likely to be continuously used. However, there is always the danger of an occasionally sudden, though perhaps temporary, rise of temperature in a dwelling house chimney, and that is the condition which would produce the crack.

For this reason we believe it to be quite necessary that dwelling house chimneys should be lined with terra cotta or fire clay flue lining, and that the outside walls of such chimneys should be not less than 4 inches thick.

There is a tendency in some parts of the country to use bricks on edge and other methods of construction which give a thin chimney wall. These we believe to be very dangerous and we are unalterably opposed to such construction. We also believe that when chimneys are made of concrete they ought to be reinforced in some manner. The additional cost is very slight, indeed, and the advantages to be gained are substantial and apparent.—"Concrete and Cement Age."

THE PANAMA-PACIFIC EXPOSITION.

Of all classes of craftsmen who will visit the Panama-Pacific International Exposition in 1915, there will be none whose delight will be keener or whose interest more general than the architect and the architectural engineer.

The exposition itself will be a huge and superb exhibit of the genius of architects. From the Palace of Machinery, which is the largest wooden structure in the world, to the Palace of Fine Arts, which will be constructed to conform with every modern demand for "class A" fireproof structures, the grounds will be a constant challenge to the attention and interest of the architect. The reclamation of the exposition site, says a writer in a building magazine, will be likely to engross the attention of the architectural engineer who is acquainted even superficially with the problems of pre-exposition preparation when much of the 635 acres of exposition domain was marsh or tide land, submerged in the waters of San Francisco Bay, or the abode of the long-legged water bird and the clam.

But supplementing the architectural display represented by the exposition itself, there will be found in the Palace of Liberal Arts a splendid comprehensive exhibit of data, drawings, models, photographs related to architecture; there will also be an equally comprehensive display in the exhibit of architectural engineering. Here will be shown the models and working plans of public and commercial buildings, large and small dwelling houses, flats, apartment houses, models, detail drawings and specifications for foundation walls, partitions, floors, roofs, stairways and wood and metal framing, while there will be great interest in the safety con-

trivances provided against the terrors of panic and danger by fire, as well as in novel means of convenience provided by such media as moving stairways, elevators, etc. The display of drawings and models of public buildings will be particularly effective and comprehensive.

RECENT TRADE LITERATURE.

The cleverest bit of advertising we have seen in many a year is the booklet just issued by the Ceresit Waterproofing Company advocating the use of "Ceresit." This booklet, arranged after the fashion of a legal brief, is in five books ingeniously bound into one. Book one is devoted to "Scientific Explanation," book two to "Reports and Tests by Authoritative Engineers," book three to "Records of Actual Use," book four to "Experiences of Users," and book five to "The 'Show Me' Test." Four headings give the booklet a most engaging appeal. "You Are the Judge" is the catchline. "The Issue at Court," "Our Contention," and "The Evidence" are interesting sub-headings. The booklet is artistically printed and most effectively illustrated. The man who can read it and remain skeptical regarding the value of Ceresit as a waterproofing for cement is a doubting Thomas indeed. Copies on request to parties interested. Address the Ceresit Waterproofing Company, Chicago, Ill.

* * *

We are in receipt of a most attractive little booklet from the James Spear Stove and Heating Company, of 1014-16 Market street, Philadelphia. The Spear concern is one of the oldest, best known and most reliable houses in the trade. This little booklet contains a mass of valuable data on the general subject of heating, illustrations and text descriptive of the range and variety of the Spear output and a number of well-executed half-tones of important buildings in which the heating equipment has been installed by the Spear Company.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

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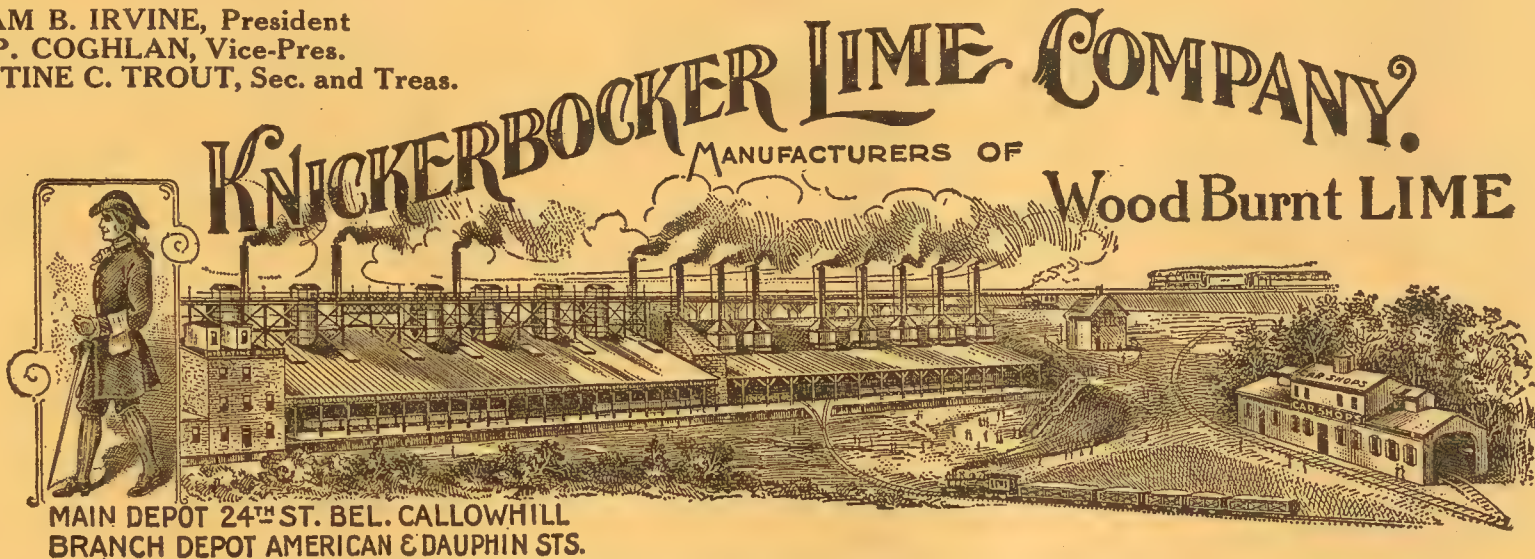
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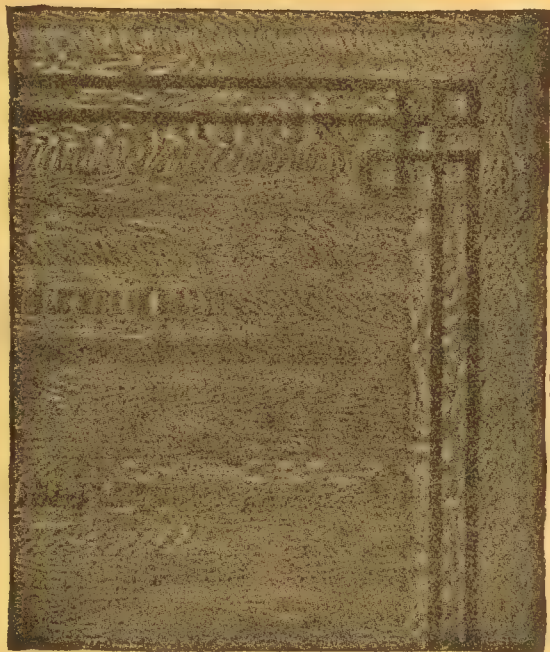
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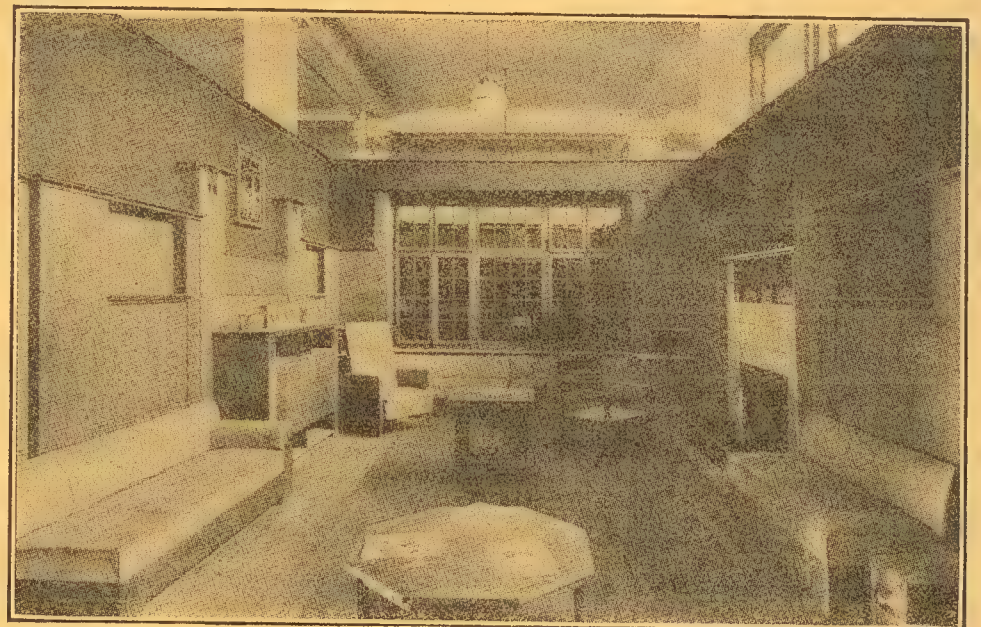
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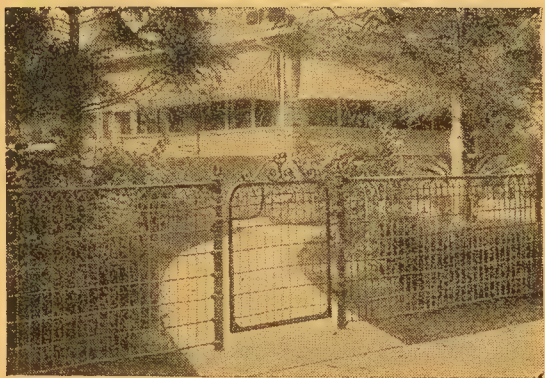
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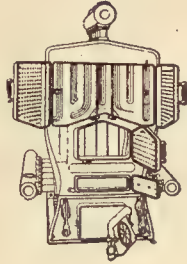
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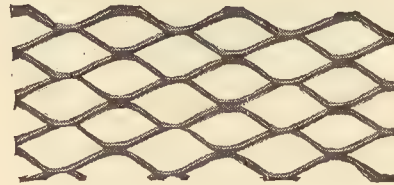
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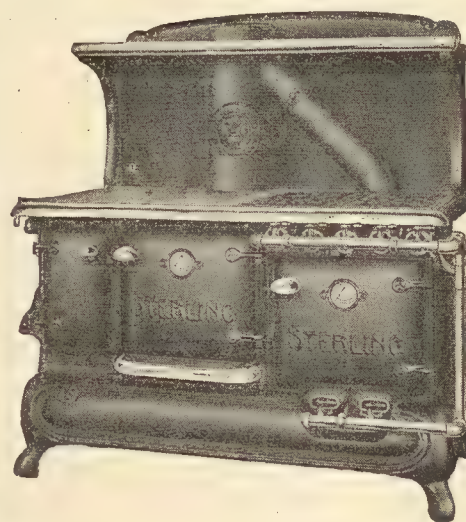


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Vol. XXIX., No. 26.

PHILADELPHIA, WEDNESDAY, JULY 1, 1914

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Manufacturing Building, Hunting Park avenue and Aramingo street. Architect, private plans. Owners, John T. Lewis Co., Lafayette Building, Phila. Brick, 3 stories, 48x118 feet, slag roof, safety treads, water-proofing, metal lath. Owners taking bids due July 6th. The following are figuring: A. Bottoms & Sons Co., 41 South Fifteenth street; Cramp & Co., Denekla Building; Turner Concrete Steel Co., 1713 Sansom street; Charles McCaul Co., 1713 Sansom street; Unit Construction Co., New Stock Exchange Building.

Garage (add.), Chestnut Hill, Pa. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owner, C. W. Lloyd, 114 East Chestnut avenue. Stone, 2 stories, 35x100 feet, slag roof, electric lighting. Owner received bids June 30th.

Bank (alt.), Juniper and Chestnut streets. Architect, Edgar V. Seeler, Real Estate Trust Building. Owner, Pennsylvania Company for Insurance on Lives & Granting Annuities, 517 Chestnut street. Consists of general remodeling of interior. Plans in progress.

Residence, Oak Lane, Pa. \$12,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, Peter Woll, Jr., Seventieth street and City Line, Oak Lane. Brick and plaster, 2½ stories, 65x40 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors. Builder, William J. Gruhler Co., 219 East High street, is taking sub-bids on all lines.

Factory Building, Wayne Junction, Pa. Architect, Alexander M. Adams, 1012 Chestnut street. Owners, Wrigley Manufacturing Co., on premises. Brick, 1 story, 50x75 feet, slag roof (heat and light reserved). Architect has received bids.

Twin Residence, Washington lane and Limekiln pike. Architect, A. R. Holland, 3922 Franklin street. Owner, Ontro Lehman, 3922 Franklin street. Brick, 2½ stories, 16x40 feet, slate roof, hot water heating, electric lighting. Architect taking bids due July 1st. Stacy Reeves & Sons, 2011 Market street; George A. Sorber & Sons, 18 Harvey street; James McNeill, 536 High street, are figuring.

Hospital (alt. and add.), Seventeenth and Summer streets. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Orthopaedic

Hospital, on premises. Plans in progress. Details not decided.

Maternity Ward, Penn and Chew streets. Gtn. Architect, Louis Carter Baker, 34 South Seventeenth street, Phila. Owner, Germantown Dispensary, on premises. Brick, one story, 36x155 feet, slate and slag roof, electric lighting, metal lath (heating reserved). Architect taking bids due July 3rd. The following are figuring: James G. Doak & Co., Crozer Building; William Steele & Sons, 1600 Arch street; Fidelity Construction Co., 1215 Filbert street; H. E. Batton, Twelfth and Sansom streets; Joel W. Hutton & Co., Harrison Building; F. Elvidge & Sons, 5522 Germantown avenue; J. P. Thompson, Real Estate Trust Building.

Hospital (alt. and add.), Seventeenth and Vine streets. Architect, H. L. Reinhold, Jr., 1309 Walnut street. Owner, Charity Hospital, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting. Plans in progress. Bids in one week.

Warehouse, Piers 46 and 47 North Delaware ave., \$200,000. Architect, private plans. Owners, Pennsylvania Sugar Co., care of W. H. Hoodlee, Superintendent, 1034 North Delaware avenue. Brick, steel and concrete, 3 stories, 125x216 feet, composition roof, steam heat, electric light, metal doors and frames, metal frames and sash. Builders, Guernsey-O'Meara Co., North American Building, taking sub-bids.

Manufacturing Building (alt. and add.), 5605 Germantown avenue. Architects, Ballinger & Perrot, 1211 Arch street. Owner, C. A. Asher, on premises. Brick, 3 stories and basement, 20x170 feet, slag roof, steam heating, electric lighting. Architects have received revised bids.

Store and Dwelling (alt. and add.), Twelfth and Carpenter streets. Architect, Robert W. Pollock, 1600 South Fifteenth street. Owner, name withheld. Brick, 3 stories, slag roof, hot air heating. Architect taking bids due July 1st. F. E. Wallace, 1210 Sansom street, is figuring.

Building (alt. and add.), 1529 North Seventh street. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Hebrew Education Society, Tenth and Carpenter streets. Brick,

4 stories, slag roof, hot air heating, electric lighting. Architect taking bids due July 1. The following are figuring: H. E. Batton, Twelfth and Sansom streets; Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street; Samuel Schultz, 923 East Moyamensing avenue; Harry Reusswick, 137 North Tenth street.

Church and Parish House, Forty-second street and Woodland avenue. Architects, Duhring, Okie & Zeigler, Bailey Building. Owner, St. Monica's P. E. Church, care of Architect. Brick, 1 story, 65x143 feet, slate roof, steam heating, electric lighting. Architect taking bids due July 6th. The following are figuring: Joseph Bird Co., 213 North Eleventh street; F. B. Davis, 240 North Sixteenth street; Harrison C. Rea Co., 1027 Wood street; Joel W. Hutton Co., Harrison Building; W. J. Robinson, 1508 Lombard street; A. B. Chase, Holmesburg, Pa.

Apartment House (alt. and add.), 2030 Ontario street. Architect, Edwin A. Yeo, 3445 North Eighteenth street. Owner, Walter Thompson, 1019 South Second street. Brick, 2 stories, 32x100 feet, slag roof, electric lighting, steam heating, oak floors. Architect received bids June 30th.

Piers (2), 38 and 40 South Wharves, Delaware River. Architect, private plans. Owner, Department of Wharves, Docks and Ferries, Bourse Building. Brick, stone and concrete, 2 stories, 183x551 feet (slag roof, heating, lighting, rolling steel doors reserved), metal sash and frames, metal lath, safety treads. Owners taking bids due July 30th. Burd P. Evans Co., Broad and Wallace streets, and Armstrong & Latta, Land Title Building, are figuring.

Residence (alt. and add.), Chestnut Hill, Pa. Architects, Wilson Eyre & McIlvain, 1003 Spruce street. Owner, Jay Cook, 3rd, on premises. Hollow tile and plaster, 2½ stories, slate roof, electric lighting, cork tile floors, metal lath, water-proofing. Architects received bids June 30th.

Factory Building, Comly and Milnor streets. Architects, Ballinger & Perrot, 1211 Arch street. Owners, Quaker City Rubber Company, 629 Market street. Brick and concrete, 4 stories, 50x150 feet, slag roof, electric light-

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ing. Plans in progress. Bids in one week.

Hotel (alt. and add.), 509-11 South Fifth street. Architect, F. N. Greisler, Lafayette Building. Owner, M. Leblang, on premises. Brick, 3 stories, 36x75 feet, electric lighting, steam heating, hardwood floors. Plans in progress.

Hall Building (alt. and add.), 808 North Third street. Architect, F. N. Greisler, Lafayette Building. Owner, M. Spindel, on premises. Brick, 3 stories, 18x44 feet, slag roof, electric lighting, steam heating. Architect taking bids, due July 6th. The following are figuring: Klos & Reiff, 1132 Race street; S. Lashner, Fifth and Morris streets; M. Kane, 850 North Sixth street; A. Kirpichinkof, 709 Parrish street.

Store and Dwelling (add.), 629 Bainbridge street. Architect, F. N. Greisler, Lafayette Building. Owner, H. Valinsky, on premises. Brick, 3 stories, 16x72 feet, slag roof, hot water heating, electric lighting. Architect taking bids, due July 7th. The following are figuring: S. Lashner, Fifth and Morris streets; Samuel Schultz, 923 East Moyamensing avenue; Fred Quate, 1323 Snyder avenue.

Theatre, southwest corner Thirty-eighth and Chestnut streets, \$75,000. Architect, Le Roy B. Rothschild, Bulletin Building. Owner, Sol Greenberg, Morris Building. Brick, terra cotta, steel and fireproof, 1 story, 60x160 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing, tile and marble work. Architect taking bids. Freund-Seiden-

bach Company, Bulletin Building; Burd P. Evans & Co., Thirteenth and Wallace streets, are figuring.

Residence (alt. and add.), 111 East Cliveden street, Germantown. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, C. W. Potts, 127 Cliveden street, Germantown. Brick, 3 stories, slate roof, expanded metal lath, tile work (heating, electric lighting, parquet floors reserved). Revised plans in progress. Bids in one week.

Club House (alt. and add.), 251-253 South Camac street. Architects, Magaziner & Potter, 603 Chestnut street. Owners, Coin D'Or Club, care of Yarnall Abbott, Abbott Building. Brick, 3 stories, 29x66 feet, tile and slag roof, metal lath, metal frames and sash (heating and lighting reserved). Architects taking revised bids, due July 2nd. Stacy Reeves & Sons, 2011 Market street, and F. B. Davis, 240 North Sixteenth street, are figuring.

Boiler House, Fifty-eighth and Thomas avenue. Architect, private plans. Owners, Baptist Orphanage, on premises. Brick, 1 story, 30x45 feet, slag roof. Builder, H. E. Baton, Twelfth and Sansom streets, is taking sub-bids.

Home (alt. and add.), Mt. Airy, Philadelphia. Architects, Stewardson & Page, 320 Walnut street. Owner, Leamy Home, Mt. Airy. Brick and stone, 3 stories, slate roof, electric lighting, metal lath. Architects taking bids, due July 1st. F. E. Wallace, 1210 Sansom street, is the only bidder.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 1711 Rittenhouse street. Architects, Stewardson & Page, 320 Walnut street. Owner, Mrs. A. D. Bache, on premises. Brick, 4 stories, tin roof, oak floors (heating reserved), water-proofing, metal lath. Contract awarded to William R. Dougherty, 1610 Sansom street.

Factory Building (alt.), Tacony, Phila. Architect, private plans. Owner, Henry Dission Co., Tacony, Pa. consists of 6,000 square

feet of concrete floors, water-proofing, steel work. Contract awarded to F. W. Van Loon, Denckla Building.

Garage, 4805-07 North Broad street. Architect, private plans. Owner, Morris M. Gibb, York road and Rockland street. Brick, 1 story, 60x140 feet, slag roof, steam heating, electric lighting, expanded metal lath, gasoline storage system. Contract awarded to Stewart Bros., 2526 North Orkney street.

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Store and Residence, 325 South Fifth street. \$3,500. Architect, F. N. Greisler, 412 South Fifth street. Owner, C. Katman, on premises. Brick, 3 stories, slag roof, electric lighting. Contract awarded to Frank & Kiser, 1522 South Sixth street.

Residence (alt. and add.), Oak Lane, Pa. Architect Charles F. Schaeff, 1524 Chestnut street. Owner, Dr. Joseph Cramp, on premises. Stone, 2½ stories, consists of interior alteration and addition. Contract awarded to John Morrow Construction Co., 308 South Twelfth street, Phila.

Store Building (alt. and add.), 1527 Walnut street. Architects, Guy King Co., 1513 Walnut street. Owners, Hughes & Muller, 1512 Walnut street. Brick and stone, 4 stories, 29x181 feet, steam heating, electric lighting, oak

floors, metal frames and sash, metal lath, elevators. Contract awarded to A. Whitehead, Inc., 1624 Lattimer street.

Store and Apartments, 622-24 South Broad street, \$10,000. Architects, the Hoffman Co., Juniper and Market streets. Owner, George H. Earle, Jr., Real Estate Trust Building. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Hospital (alt. and add.), Thirty-third and Lancaster avenue. Architects, Brockie & Hastings, 1713 Sansom street. Owners, Rush Hospital, on premises. Consists of alteration and addition to third and fourth floors, metal lath. Contract awarded to F. E. Wallace, 1210 Sansom street.

PENNSYLVANIA

Construction News

Residence, Haverford, Pa. \$9,000. Architects, Martin & Kirkpatrick, 1001 Chestnut street, Phila. Owner, Harry Edson, 431 Walnut street. Hollow tile and plaster, 2½ stories, 25x60 feet, shingle roof, electric lighting, hardwood floors. Architect taking bids due July 1st. F. H. Mahan, Ardmore, Pa.; W. H. Parlamen, Devon, Pa.; E. J. Hedden, South Penn Square Building; William R. Dougherty, 1610 Sansom street; Joel W. Hut-ton Co., Harrison Building, of Phila.; Mow-er Bros., Merion, Pa.; A. L. Fretz & Sons, 1222 Chancellor street; J. Sims Wilson, 1125 Brown street; John Morrow Construction Co., 318 South Twelfth street, of Phila., are figuring.

Residence, Jenkintown, Pa. Architects, Druckenmiller & Williams, Land Title Building, Phila. Owner, Dr. A. C. Heritage, Jenkintown, Pa. Stone and frame, 2½ stories, 27x65 feet, slate roof, hot water heating, electric lighting, oak floors. Architects taking revised bids due July 7th. J. B. Flounders, 1329 Arch street, Phila.; Specht & Sperry, Heed Building, Phila.; W. J. Stevens, Wyn-cote, Pa.; Kaufie Bros., Lansdale, Pa., and Krewson Bros. and M. E. Hauser, both of Glenside, Pa., are figuring.

Residence, Edgemont, Pa. Architects, Mel-lor & Meigs, 205 South Juniper street, Phila. Owner, Francis V. Lloyd, Land Title Building, Phila. Stone, 2½ stories, 25x70 feet, shingle roof, hot water heating. Plans in progress. Bids in three weeks.

Residence, Elkins Park, Pa. Architect, Linford A. Carman, Jr., 1206 West Allegheny avenue, Phila. Owner, Linford A. Carman, 1206 West Allegheny avenue, Phila. Stone, 2½ stories, 30x45 feet, slate roof, hot water

heating, electric lighting, hardwood floors. Owner taking sub-bids.

Chapel, Easton, Pa. \$100,000. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owner, Lafayette College, Easton, Pa. Stone and brick, 1 story, 125x130 feet, cooper roofing, water-proofing, metal lath (heating and lighting reserved). Architects taking revised bids due July 1st. The following are figuring: George & Borst, 277 South Eleventh street; J. E. and A. L. Penneck, Land Title Building; F. W. Van Loon, Denck-la Building; F. L. Hoover & Sons, 1023 Cherry street; Charles McCaul Co., 1713 Sansom street, all of Philadelphia.

Residence, Drexel Hill, Pa. \$6,500. Archi- tect, Wayne M. High, 416 Penn street, Read- ing, Pa. Owner, Alfred High, 1418 Walnut street, Phila. Stone, 2½ stories, 32x35 feet, slate roof, hot water heating, electric light- ing (hardwood floors reserved) Architect and owner taking sub-bids due July 6th.

Home Buildings, Cheyney, Pa. Architects, Morris & Erskine, Crozer Building, Phila. Owner, Shelter for Colored Orphans, Forty-fourth and Wallace streets, Phila. Consists of administration building and two dormitory buildings, hollow tile and plaster, 2 stories, 70x50 feet, dormitories (2), 70x50 feet each, slate roofs (steam heating, electric lighting, sewage disposal plant reserved). Plans in progress. Architects will take bids in about two weeks.

Barn, Stable and Garage, Wayne, Pa. Architect, Charles A. Platt, 11 East Twenty-fourth street, New York City. Owner, H. L. Clark, 321 Chestnut street, Phila. Brick, 1 and 2 stories, 86x95 feet, slate roof, elec- tric lighting, cork floors, metal lath, gasoline storage. Builders, J. S. Cornell & Sons, Land

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Title Building, Phila., are taking sub-bids.

Residence (alt. and add.), Wynnewood, Pa. \$2,000. Architects, Mellor & Meigs, 205 South Juniper street, Phila. Owner, Henry S. Drinker, Jr., Wynnewood, Pa. Frame and plaster, 2½ stories, 18x26 feet, shingle roof, hot water heating. Architect taking bids due July 1st. Herbert F. Foster, Ardmore, Pr.; M. W. Young, Overbrook, Pa.; Robert Baxter & Son, 1727 Ionic street; J. J. Murphy, 1139 South Wilton street, of Philadelphia, are figuring.

Church, Chester, Pa. Architects, Charles Bolton & Sons, Witherspoon Building, Phila. Owner, Bethany Presbyterian Church, Chester, Pa. Stone, 1 story, 50x95 feet, slate roof, steam heating, electric lighting. Architects taking bids, due July 3rd. The following are figuring. Mercadante & Son, Chester, Pa.; Harry Hughes, Chester, Pa.; Deaves & Moore, Llanerch, Pa.

Residence, St. David's, Pa. Architect, Oliver Parry, 1727 Chestnut street, Phila. Owner, Mrs. S. J. Buxton, St. David's, Pa. Hollow tile and plaster, 2½ stories, 25x61 feet, shingle roof, steam heating, electric lighting, oak floors, canvas roof. Architect has received bids.

Residence, Lancaster, Pa., \$15,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, C. A. B. Zook, Hamilton Apartments, Lancaster, Pa. Frame and stucco, 2½ stories, 36x80 feet, shingle roof, hot air heating, electric lighting, hardwood floors, tile work, metal lath. Revised plans in progress.

Church (alt. and add.), Quarryville, Pa. \$16,000. Architects, Harman & Davis, 56 North Duke street, Lancaster, Pa. Owner, Reformed Church Congregation, Quarryville, Pa.

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Stone and brick, 1 story, parsonage, 2½ stories, 30x35 feet and 60x80 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Apartment House (alt. and add.), Lancaster, Pa. \$10,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, Lewis Cohn, Lancaster, Pa. Brick, 3½ stories, 38x82 feet, slag roof, hot water heating, electric lighting, metal lath, tile work, dumb-waiter. Owner taking bids.

School, Tenth street and Ridge avenue, Darby, Pa. Architects, Folsom & Stanton, 1423 Chestnut street. Owner, School Board, Wilby, Pa. Architects, Folsom & Stanton, 1433 liam E. Buckman, Secretary, Darby, Pa. Sayre & Fisher brick and terra cotta trimmings, 2 stories, 40x62 feet, slag roof, concrete and hollow tile fire-proofing, safety treads, metal lath (heat and electric work separate bids), black boards reserved. Owners have received revised bids.

School, Sixth and Walnut streets, Darby, Pa. Architects, Folsom & Stanton, 1433 Chestnut street. Owner, School Board, William E. Buckman, Secretary, Darby, Pa. Stone and terra cotta trimmings, 2 stories, 91x65 feet, Emack's slate roof, reinforced concrete and hollow tile fire-proofing, safety treads, metal lath (heating and electric work separate bids), blackboards reserved. Owners have received revised bids.

Church and Rectory, Lebanon, Pa. Architect, George I. Lovatt, 418 Walnut street, Philadelphia. Owner, St. Gertrude's R. C. Church, Rev. A. G. Kappes, Lebanon. Brick, brownstone trimmings, church, 1 story, 65x130 feet, tile work, steam heating, electric lighting, marble interior. Plans in progress for church. Plans for rectory not started.

Water Tower, Beth Ayres, Pa. Architect, William C. Prichett, 418 Walnut street, Phila. Owner, J. B. Lippincott, 227 South Sixth st., Phila. Stone, 60 feet high. Plans in progress.

School (add.), Collegeville, Pa. Architect, George E. Savage, Witherspoon Building, Phila. Owner, Board of Education, D. H. Bartman, Secretary, Collegeville, Pa. Brick, stone trimmings, 2 stories, 40x80 feet, slate roof, steam heating, electric lighting. Plans completed. Owners taking bids.

Sanitarium (add.), Cresson, Pa. Architects, Harris & Richards, Drexel Building, Phila. Owner, State of Pennsylvania, Department of Health and Charities, Dr. Samuel G. Dixon, 1900 Race street, Phila. Stone, fireproof, 4 stories, 100x200 feet. Consists of west ward building and connecting buildings, slate roof, steam heating, electric lighting, metal lath. Plans about completed. Owners will advertise for bids in about two weeks.

School, Plymouth Meeting, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, care of William S. Dickerson, Secretary, Plymouth Meeting, Pa. Brick, 2 stories, 50x90 feet, slag roof, metal ceilings, electric

lighting, maple floors, slate blackboards. Owners ready for bids.

School, Connaughton, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, care of William S. Dickerson, Secretary, Plymouth Meeting, Pa. Brick, 1 story, 40x60 feet, slag roof, metal ceilings, maple floors, slate blackboards. Owners ready for bids.

Church, Freeland, Pa. Architect, Louis H. Giele, 1123 Broadway, New York City. Owner, St. John's R. C. Church, Freeland, Pa. Hollow tile and plaster, 1 story, 70x100 feet, slate roof, electric lighting, steam heating, metal lath. Architect taking bids due July 3rd. John McShain, 631 North Seventeenth st., Phila., is figuring.

Church and Parsonage, Lehighon, Pa., \$50,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Zion Reformed Church, care of H. B. Kennel, Lehighon, Pa. Brick, stone trimmings, 1 and 3 stories, 105x65 feet and 33x61 feet, slate roof, steam heating, electric lighting. Owners are taking bids.

Residence (alt. and add.), Rosemont, Pa. Architect, John I. Bright, 1701 Chestnut street, Philadelphia. Owner, George Gibb, 1520 Chestnut street, Philadelphia. Frame, 2½ stories, shingle roof, electric lighting, hot air heating, hardwood floors. Plans in progress. Bids in one week.

Residence and Garage, Bryn Mawr, Pa. Architect, W. Wayne, Jr., 311 South Hicks street, Philadelphia. Owner, Lawrence D. Beggs, 113 South Third street, Philadelphia. Hollow tile and plaster, 2½ stories, 80x100 feet, slate roof, oak and cork tile floors, canvas roof (heating and lighting reserved). Architect taking bids, due July 8th. The following are figuring: George & Borst, 277 South Eleventh street, Philadelphia; George W. Frankenfield, Ambler, Pa.; Gray Brothers, Rosemont, Pa.; George L. Croll, Rosemont, Pa.; F. H. Mahan, Ardmore, Pa.

Chemical Laboratories, State College, Pa. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, State College of Pennsylvania, State College, Pa. Stone, brick, steel and concrete, 3 stories, 45x100 feet, slag roof, steam heating, electric lighting, metal lath, metal casements. Architects taking bids, due July 10th. The following are figuring: J. E. & A. L. Pennock, Land Title Building; Henry L. Brown, 1714 Sansom street; R. C. Ballinger Co., 218 North Thirteenth street; Charles McCaul Co., 1713 Sansom street, all of Philadelphia.

Store (alts. and adds.), Schuylkill Haven, Pa. Architect, C. E. Kendrick, Pottsville, Pa. Owner, Mrs. K. E. Felix, Schuylkill Haven, Pa. Brick, 2 stories, 23x31 feet, tin roof, steam heating, electric lighting. Plans in progress.

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PENNSYLVANIA

Contracts Awarded

Service Building, Rosemont, Pa. \$28,000. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Phila. Owner, George McFadden, 121 Chestnut street, Phila. Brick, 2 stories, 93x58 feet and 38x26 feet, consists of service building, cottage, slate roof, hot water heating, electric lighting, metal lath, tile work, reinforced concrete floors. Contract awarded to F. E. Wallace, 1210 Sansom street, Phila.

Residence, Radnor, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Phila. Owner, Isaac H. Clothier, Jr., Radnor, Pa. Plaster and frame, 2½ stories, slag and shingle roof, electric lighting, canvas roof. Contract awarded to Stacy Reeves & Sons, 2011 Market street, Phila.

Playgrounds (2), Ardmore, Pa., and Bala, Pa. Architect, Ralph E. White, Pennsylvania Building, Phila. Owner, Lower Merion Township Commissioners, G. C. Anderson, Clerk, Mahan Building, Ardmore, Pa. Consists of grading, sodding, drainage, comfort building, shelters, etc. Contract awarded to P. S. Davis, Bryn Mawr, Pa.

Recreation House, Newtown, Pa. Architect, Oliver R. Parry, 1727 Chestnut street, Phila. Owner, J. J. Tierney, Newtown, Pa. Brick and plaster, 1 story, 20x30 feet, shingle roof, electric lighting, consists of swimming pool, locker room, dressing rooms. Contract awarded to John L. Gilchrist, 147 Farson st., Phila.

School, Marion Heights, Pa., \$13,000. Architect, Clyde Adams, 1509 Arch street, Phila. Owner, Board of Education, Marion Heights, Pa. Brick, 2 stories and basement, 31x74 feet, tin and slag roof, electric lighting, metal lath (heating reserved). Contract awarded to Lewis Appellechi, Marion Heights, Pa.

Residence, Lancaster, Pa. \$6,000. Archi-

tect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, H. A. Bevis, Hamilton Apartments, Lancaster, Pa. Brick, 3 stories, 20x60 feet, slate and tin roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster, Pa.

Dancing Pavilion, Lancaster, Pa. \$7,000. Architect, M. R. Evans, 10½ East Orange st., Lancaster, Pa. Owner, Conestoga Park, Howard E. Doan, Manager, Lancaster, Pa. Frame, 1 story, 80x120 feet, electric lighting, maple floors. Contract awarded to L. R. Geisenberger, 651 West Chestnut street, Lancaster, Pa.

Residences (2), Lancaster, Pa. \$6,000. Architect, M. R. Evans, 10½ East Orange st., Lancaster, Pa. Owner, August Kruschmiski, Lancaster, Pa. Brick, 2½ stories, 32x54 feet, slate and tin roof, hot air heating, gas lighting. Contract awarded to Harry Ulrich, Lancaster, Pa.

High School, Newtown Township, Delaware County, Pa. \$21,050. Architects, Lachman & Murphy, Witherspoon Building, Phila. Owner, Marple & Newtown High School, care of J. F. T. Lewis, Secretary, 115 South Thirtieth street, Phila. Brick, 2 stories and basement, 70x80 feet, slate roof, water-proofing (heating and electric lighting separate bids). Contract awarded to George F. Pawling Co., Broad and Vine streets, Phila.

Residence (alts.), Bethlehem, Pa., \$50,000. Architects (associated), A. W. Leh, South Bethlehem, Pa., and Neff & Thames, Heed Building, Philadelphia. Owner, Charles M. Schwab, 111 Broadway, New York City. Brick and Indiana limestone, 3 stories, red tile roof, casement windows, expanded metal lath, electric lighting, marble and tile work. Contract awarded to Charles McCaul Co., 1713 Sansom street, Philadelphia.

NEW JERSEY

Construction News

Sunday School, Laurel Springs, N. J. Architect, George E. Savage, Witherspoon Building, Phila. Owner, St. Paul's Presbyterian Church, Laurel Springs, N. J. Stone and frame, 1 story shingle roof, steam heating, electric lighting. Owners ready for bids.

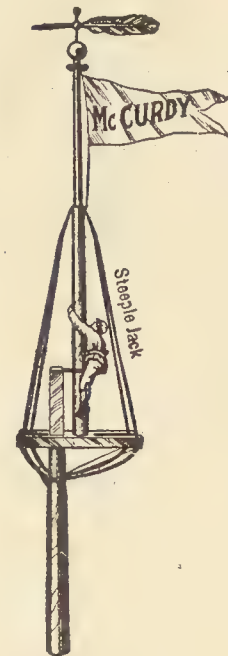
Church, Trenton, N. J. Architect, George E. Savage, Witherspoon Building, Phila. Owner, Cadwalader Heights M. E. Church, Trenton, N. J. Stone, 1 story, 68x90 feet, slate roof, steam heating, electric lighting. Owners taking bids.

School (add.), Merchantville, N. J. \$50,000. Architect, H. A. Macomb, 214 South Seventh street, Phila. Owners, Board of Education, Merchantville, N. J. Brick, stone trimmings, 2 stories, 48x182 feet, slag roof, fan system of heating, electric lighting, safety

treads, metal lath, concrete floors. Owners taking bids due July 7th, 5 P. M. The following are figuring: Barclay White & Co., Perry Building; Smith-Hardican Co., 1606 Cherry street; George F. Pawling Co., Broad and Vine streets; Specht & Sperry, Heed Building; Monaghan & Losse, 210 South Twelfth street; F. Roe Searing, Perry Building; John Botwright, 5909 Pine street, all of Phila.; M. T. James, Merchantville, N. J.

High School, Pleasantville, N. J. Architect, S. Hudson Vaughn, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Pleasantville, N. J. Brick, 2 stories, 54x75 feet, slag roof, electric lighting, metal lath, damp-proofing (heating reserved). Owners received bids June 30th.

School, Pleasantville, N. J. Architect, J. V.



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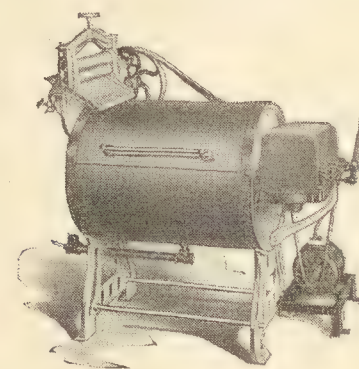
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Keystone, Race 60-17A

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Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Pleasantville, N. J. Brick, 2 stories, 30x73 feet, slag roof, electric lighting, water-proofing (heating reserved). Owners received bids.

Bungalows (8), Atlantic City, N. J. \$40,000. Architect, Seward G. Dobbins, City Square Theatre Building. Owner, Samuel F. Nixon, 842 North Broad street, Philadelphia. Brick and stucco, 1½ stories, 35x40 feet each; slate and tile roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Store and Apartments, Atlantic City, N. J. \$15,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, name withheld. Brick, limestone trimmings, 4 stories, 20x85 feet, slate roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

Public Comfort Station, Texas avenue, Atlantic City, N. J. \$25,000. Architects, Shull & Berry, Humphrys Building, Atlantic City, N. J. Owner, City of Atlantic City, Department of Public Works. Brick and Concrete, 2 stories, 85x110 feet. Plans in progress.

Store Front, Atlantic City, N. J. \$1,500. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Adolph Folkman, 1712 Atlantic avenue, Atlantic City, N. J. White enamel brick, slag roof, electric lighting, tile work, new bulk windows. Owner will sub-let all contracts.

Bungalow, Ventnor, N. J. \$7,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Dr. J. B. Thompson, 2902 Pacific avenue, Atlantic City, N. J. Brick and frame, 2 stories, 40x30 feet, slate roof, hot water heating, gas and electric lighting, tile work. Architect taking bids due June 27th.

Bungalow, Ventnor, N. J. \$4,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Bartholomew Donovan, 206 North Missouri avenue, Atlantic City, N. J. Frame, 1½ stories, 26x42 feet, slate roof, hot water heating, gas and electric lighting. Architect taking bids due July 3rd. The following are figuring: Charles D. Thompson, Bartlett Building; H. G. Scull, Sheen Building; E. Ellsworth Smith, 2809 Fairmount avenue; F. J. Pedrick, 110 North Morris avenue; C. S. Corson, all of Atlantic City, N. J.

Apartment House, Atlantic City, N. J. \$25,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, I. Aaron, Connecticut avenue, Atlantic City, N. J. Brick, 4 stories, 50x70 feet, slag roof, vapor vacuum heating, gas and electric lighting, tile work, fire escapes. Architect taking bids. The following are figuring: H. G. Scull, Sheen Building; E. Ellsworth, 2809 Fairmount avenue; Charles S. Corson, all of Atlantic City, N. J.

Theatre, Apartment House and Store, Burlington, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, J. Ellis, Beverly, N. J. Brick, 2 stories, 75x200 feet, slag roof, hot water heating, gas and electric lighting, composition floors, tile work. Architect has received bids.

Residence, Trenton, N. J. \$5,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, M. Dusenbury, 945 Carteret street, Trenton, N. J. Frame and shingles, 2 stories, 28x40 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids. The following are figuring: I. Harper Clayton, American Mechanics' Building; Ed. La Rue, 53 South Hermitage street; Charles R. Randall, 43 North Hermitage street; William R. Ivins, 705 Monmouth street, all of Trenton, N. J.

Church, Monmouth Junction, N. J. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, St. Cecilia's R. C. Church, Rev. P. J. Quinn, East Millstone, N. J. Stone, 1 story, 38x68 feet, slate roof. Revised plans in progress.

Residence, Trenton, N. J. \$8,500. Architect, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. G. Titus, 623 West State street, Trenton, N. J. Brick, stone trimmings, 2½ stories, 30x43 feet, slate roof, gas and electric lighting,

hardwood floors, tile work (heating reserved). Architects taking bids. The following are figuring: S. W. Mather & Son, American Mechanics' Building; Burton & Burton, American Mechanics' Building; Ed. La Rue, 53 South Hermitage street; I. Harper Clayton, American Mechanics' Building; Scott & Day, 232 South Olden street; Charles R. Randall, 43 North Hermitage street, all of Trenton, N. J.

Residence, Trenton, N. J. \$8,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, G. H. Bell, 634 West State street, Trenton, N. J. Brick, stone trimmings, 2½ stories, 38x38 feet, slate roof, gas and electric lighting, hardwood floors, tile work (heating reserved). Architects taking bids. The following are figuring: S. W. Mather & Son, American Mechanics' Building; Burton & Burton, American Mechanics' Building; Ed. La Rue, 53 Hermitage street; I. Harper Clayton, American Mechanics' Building; Scott & Day, 232 South Olden street; Charles R. Randall, 43 North Hermitage street, all of Trenton, N. J.

Hotel (add.), Atlantic City, N. J. \$2,000,000. Architects, Price & McLanahan, 1418 Walnut street, Phila. Owners, Hotel Traymore, Atlantic City, N. J. Brick, steel and concrete, terra cotta, 15 stories, tile and slag roof, electric lighting, steam heating, oak and composition floors, metal lockers, metal weather strips, 11 elevators, metal lath, metal sash and frames, steel casements, waterproofing, damp-proofing. Architects taking bids due July 8th. The following are figuring: Cramp & Co., Denekla Building; Irwin & Leighton, 126 North Twelfth street; James G. Doak & Son, Crozer Building; Roydhouse-Arey Co., Fidelity Building; George A. Fuller Co., Morris Building, all of Phila.; and Thompson-Starrett Co., 49 Wall street, and Manhattan Construction Co., 76 William st., both of New York City.

Church, Audubon, N. J. \$15,000. Architects, Hauer & Mowere, 3110 Columbia avenue, Phila. Owners, St. John's Lutheran Congregation, Audubon, N. J. Stone, 1 story, 36x50 feet, wing, 22x36 feet, slate roof, electric light. (heating reserved). Plans in progress. Bids in two weeks.

School (alt. add.), Bordentown, N. J. Architect, Oliver R. Parry, 1727 Chestnut street, Phila. Owner, Bordentown Military Academy, Bordentown, N. J. Brick, 2 stories, consists of interior alteration and addition, metal lath, composition floors, electric lighting (heating reserved). Architects taking bids due July 3rd. The following are figuring: W. J. Jones, 2927 North Fifth street, Phila.; and E. B. Tautman, Bordentown, N. J.; and Louis F. Loudon, Riverton, N. J.

Office Building, Camden, N. J. Architects, Karcher & Smith, Crozer Building, Phila. Owner, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 8 stories, 75x150 feet, slag roof, steam heating, electric lighting. Plans in progress. Bids in one week.

Residence, Stanwick, N. J. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Walter S. Lippincott, Stanwick, N. J. Brick and hollow tile and plaster, electric lighting, hardwood floors (heating undecided). Plans in progress.

Church Tower, Trenton, N. J., \$10,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, State Street M. E. Church, Trenton, N. J. Brownstone. Plans in progress. Architect will take bids in about ten days.

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New Jersey

Contracts Awarded

Comfort Station and Pavilion, Ventnor, N. J. \$15,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, City of Ventnor, Ventnor, N. J. Stucco, 1 story, 60x70 feet, tile roof, electric lighting, pressed cement tile floors. Contract awarded to Alexander W. Dick, Ventnor, N. J.

Apartment House, Atlantic City, N. J. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Samuel C. Jones, 1318 Atlantic avenue, Atlantic City, N. J. Brick, 3 stories, 18x45 feet, slate roof, hot water heating, gas and electric lighting, tile work. Contract awarded to G. Bolton Parson, 113 Grammercy Place, Atlantic City, N. J.

Insane Asylum (add.), Trenton, N. J. \$96,700. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey. Brick and steel fire-proof, 2 stories, 330x38 feet and 190x23 feet, slag roof, steam heating, electric lighting, composition floors, hollow tile and concrete fire-proofing, metal frames and sash. Contract awarded to Gustave De Kempe, 70 Hudson street, Hoboken, N. J.

School, Ellisburg, N. J. Architect, Clyde S. Adams, 1509 Arch street, Phila. Owner, Board of Education, Ellisburg, N. J. Brick, 1 story and basement, 50x25 feet, slate roof, electric lighting, steam heating, safety treads. Contract awarded to Wilbert Titus, Paulsboro, N. J.

School Building, Almonessen, N. J. Architect, J. Fletcher Street, Drexel Building, Phila. Owner, Almonesson School Board. Brick, 1 story (2 rooms), slate roof, hot air heating, water supply system. Contract awarded to W. V. Borg, Wenonah, N. J.

Parish House, Woodbury, N. J., \$11,800. Architect, J. Franklin Stuckert, 112 South Forty-third street, Philadelphia. Owners, Christ Church, Woodbury, N. J. Frame and plaster, 1 story, 73x45 feet, slate and slag roof, metal lath, damp-proofing (heating and electric work reserved). Contract awarded to J. B. Best, Woodbury, N. J.

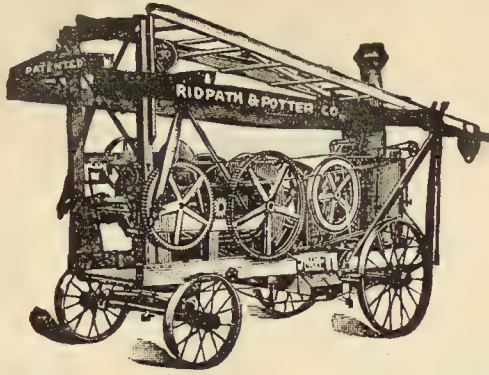
School, Gouldtown, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Fairfield Township Board of Education, care of A. H. Westcott, Clerk, Fairton, N. J. Frame, 1 story, 79x33 feet, shingle roof, slate blackboards. Contract awarded to H. H. Hankins, Bridgeton, N. J.

Miscellaneous Construction News

Service Building, London, Ontario, Canada. Architect, John Graham, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Terra cotta and concrete, 3 stories, 101x114 feet, tile roof, metal sash and frames, metal doors and trimmings, rolling steel shutters (heating and lighting reserved). Architect taking bids due July 1st. Irwin & Leighton, 126 North Twelfth street, Phila., are figuring.

High School, Detroit, Mich. Architects, Ammerman & McColl, Detroit, Mich. Owner, Board of Education, Detroit, Mich. Brick, steel and terra cotta, 2 stories and basement, 202x256 feet, composition and tile roofs, steam heating, electric lighting, safety treads, enamel brick, metal sash and frames, metal lath, lamp-proofing. Owners have received bids.

Residence (alt. and add.), Wilmington, Del., \$4,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, William G. Cope, 1005 Broome street, Wilmington, Del. Brick, 3 stories. Consists of alterations to first floor. Architect taking bids. W. D. Haddock & Co., 804 Orange street; J. A. Bader Co., DuPont Building; J. E. Healy & Co., 707 Tatnall street, are figuring, all of Wilmington, Del.



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Philadelphia

E. T. Lally (O), 852 East Woodlawn avenue. Cost, \$5,000. Two dwellings, stone, 2 stories, 16x54 feet, Washington lane and Chew street.

Powers, Weightman & Rosengarten Co. (O), Ninth and Parrish streets. William Steele & Sons Co. (C), 1600 Arch street. Cost, \$100,000. Manufacturing plant, brick, 7 stories, 71x74 feet, Ninth and Parrish streets.

B. L. Shapiaro (O), Land Title Building. Cost, \$26,000. Thirteen dwellings, brick, 2 stories, 14x30 feet, Orianna and Cayuga streets. Cost, \$2,000. Dwelling. Cost, \$4,000. Two dwellings. Cost, \$26,000. Thirteen dwellings. Cost, \$64,000. Twenty-six dwellings. Cost, \$2,000. One dwelling.

Pennsylvania Warehouse & Storage Co. (O), 112 South Third street. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$23,000. Warehouse, brick, 5 stories, 35x130 feet, 410 South Water street.

James Gallagher (O), 1638 South Twentieth street. Cost, \$4,800. Two dwellings, brick, 2 stories, 14x28 feet, 1917 McKean street.

David Hilton (O), 8000 Erdrick street. M. E. Rogers (C), 7732 Cottage street. Cost, \$3,000. Dwelling, brick, 2 stories, 16x38 feet, 7742 Jackson street.

M. J. Lazaroff (O), 1418 South Eleventh street. Cost, 6,200. Store and dwelling, brick, 3 stories, 14x40 feet, 2858 Richmond street.

Dora Dudwick (O), 7208 Woodland avenue. Louis Ostrow (C), 223 Carpenter street. Cost, \$4,500. Dwelling, brick, 2 stories, 21x50 feet, 7212 Woodland avenue.

Fifth United Presbyterian Church (O), Fifty-sixth street and Wyalusing avenue. E. E. Hollenback (C), Fifteenth and Race streets. Cost, \$20,000. Church, stone, 1 story, 66x77 feet, Fifty-sixth street and Wyalusing avenue.

J. Henry Parker (O), 614 Olney avenue. Cost, \$24,200. Eleven dwellings, brick, 2 stories, 15x28 feet. Fairhill and Loudon streets. Cost, \$6,600. Three dwellings. Cost, \$4,800. Two dwellings, 614 Olney avenue.

Harry Brocklehurst (O), 512 Norris street. Cost, \$12,000. Ten dwellings, brick, 2 stories, 15x30 feet. Cost, \$1,400. One store and dwelling. Cost \$12,000. Ten dwellings. Cost, \$12,000. Ten dwellings. Cost, \$1,400. One dwelling. Cost, 52,800. Two dwellings. Cost, \$1,400. I dwellings. Cost, \$1,400. One store and dwelling, Sixth and Mayfield sts.

P. H. Whelan (O), Betz Building. Cost, \$4,000. Two dwellings, brick, 2 stories, 15x36 feet, Third and Willen streets. Cost, \$4,000. Two dwellings. Cost, \$27,000. Eighteen dwellings. Cost \$27,000. Eighteen dwellings.

Katherine Geist (O), Lyceum and Fleming streets. J. J. Hurley (C), 503 East Monastery avenue. Cost, \$3,000. One dwelling, brick, 2 stories, 16x43 feet. Lyceum and Fleming streets.

S. Schlosberg (O), 445 North Fifty-second street. S. Cohen (C), 813 Jackson street. Cost, \$12,500. Five dwellings, brick, 2 stories, 14x26 feet, Thompson and Clearfield streets. Cost, \$12,500, five dwellings.

G. Toglietta (O), 700 South Sixth street. S. D. De Maryo (C), 1003 Annin street. Cost, \$3,000. Store and dwelling, brick, 3 stories, 29x28 feet. 702 South Sixth street.

Dr. Frank Emberh (O), 4664 Frankford avenue. W. Milnor (C), Penn and Overington streets. Cist, \$15,000. Office and store, brick, 2 stories, 39x91 feet. Frankford avenue and Overington street.

A. P. Jacobsin (O), Crescentville, Pa. M. Stevens (C), 912 Fenshaw street. Cost, \$2,700. Dwelling, brick, 2 stories, 16x40 feet, Titner and Gstreet.

Archbishop E. F. Prendegast (O), Eighteenth and Race streets. W. Beaumont (C), Stephen Girard Building. Cost, \$22,000. Church, stone, 1 story, 53x125 feet, Paul & Ruan streets, Frankford, Philadelphia.

A. S. Tourison, Jr. (O), 7014 Boyer street. Cost, \$10,000. Residence, stone, 3 stories, 27x43 feet, Clearview and Sedgwick streets. Cost, \$1,000. Garage.

M. North Brother Co. (O), 1725 North Broad street. J. N. Gill Company (C), 1213 Filbert street. Cost, \$15,000. Warehouse, brick, 35x52 feet, 2715 North Broad street.

Charles Furio (O), 219 Louie street. Cost, \$2,500. Dwelling, brick, 3 stories, 16x40 feet. Wgner and Pike streets.

Philadelphia and Reading Railroad Company (O), Twelfth and Market streets. F. W. Van Loon (C), Denekla Building. Cost, \$17,500. Station, brick, 1 story, 33x110 feet, Logan, Pa.

Y. W. C. A. (O), Eighteenth and Arch sts. Charles Gilpin (C), Harrison Building. Cost, \$130,000. Club, brick, 3 and 4 stories, 104x110 feet, Allegheny avenue and Hancock street. Cost, \$25,000. Club.

M. Gibbs (O), Rockland and Old York road. Stewart Bros. (C), 2125 North Orkney street. Cost, \$10,800. Garage, brick, 1 story, 60x139 feet, 4805 North Broad street.

J. R. Foster (O), Second and Clearfield streets. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$21,500. Dye house, brick, 3 stories, 56x53 feet, Second and Lippincott streets.

A. M. Zane (O), Land Title Building. Cost, \$50,000. Eleven dwellings, brick, 2 stories, 16x54 feet, Thirteenth and Wyoming avenue.

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Alterations and Additions

Lutheran Publishing Co. (O), 1424 Arch st. A. R. Raff (C), 1635 Thompson street. Cost, \$2,000. Building, 1424 Arch street.

David Hess (O), 904 Walnut street. Harry Drake (C), 3139 Frankford avenue. Cost, \$1,900. Store and dwelling, 114 South Twelfth street.

Globe Dye Works (O), 4520 Worth street. Cost, \$1,000. Shed, 4620 Worth street.

M. J. Walsh (O), 819 East Tioga street. Cost, \$3,500. Theatre, Kensington and Allegheny avenues.

W. E. Krewson, Jr. (O), 6755 Germantown avenue. L. W. Kitselman (C), 125 East Upsal street. Cost, \$1,800. Store and dwelling, 6755 Germantown avenue.

Frank Scheich (O), 936 Diamond street. H. C. Dahl (C), 231 South Eighth street. Cost, \$2,500. Shop and dwelling, Seventh and Willow streets.

Frankford Presbyterian Church (O), 4300 Frankford avenue. George Gray (C), 4665 Paul street. Cost, \$3,000. Dwelling, 4309 Frankford avenue.

G. H. Harding (O), 5940 Overbrook avenue. Milton W. Young (C), Overbrook, Pa. Cost, \$2,000. Garage, 5940 Overbrook avenue.

Bell Telephone Co. (O), Eleventh and Filbert streets. Bowers Bros. & Co. (C), Real Estate Trust Building. Cost, \$3,995. Telephone Exchange, Eleventh and Filbert streets.

J. B. Colohan, Jr. (O), 2205 Walnut street. Smith-Hardican Company (C), 1606 Cherry street. Cost, \$1,500. Residence, 2205 Walnut street.

Church of the Covenant (O), Twenty-seventh and Girard avenue. H. M. Kister (C), 621 Sansom street. Cost, \$2,000. Parish house, Twenty-seventh and Girard avenue.

Germantown Friends' School (O), Main and Coulter streets. W. J. Gruhler (C), 219 High street. Cost, \$6,500. School, Main and Coulter streets.

Henry Disston Company (O), Tacony, Pa. F. W. Van Loon (C), Denekla Building. Cost, \$5,000. Manufacturing, Tacony.

T. W. Evans Memorial (O), Fortieth and Spruce streets. Pomeroy Construction Company (C), 1609 Ranstead street. Cost, \$2,500. Shed, Fortieth and Spruce streets.

Fells & Co. (O), Seventy-third and Woodland avenue. Cost, \$3,000. Manufacturing, Seventy-third and Woodland avenue.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

THE XX CENTURY FORM OF LIME

By E. W. LAZELL

Member American Society of Mechanical Engineers. Member American Institute of Chemical Engineers.

The use of lime as binding material for mortar originated in the remote past. It is probable that some savages when using stone composed of lime-rock, to confine their fire, noticed that the stones were changed by the action of the heat. A passing shower may have slacked the lime to a paste, and the discovery was made that the paste was smooth and sticky, and was a better material than clay to fill up the holes and crevices in their crude dwellings. From the discovery of the fact that lime slacked with water to a paste, it was but a step to the addition of sand to the paste in order to produce a mortar.

Probably the earliest method of burning lime was a heap of stone on the ground, with logs of wood for fuel. The pile of stones later was replaced by a crude shaft excavated in the side of a hill, the interior of the shaft being lined with larger stones of the same material as those to be burned. At the bottom of the shaft there was a horizontal passage to the outside. At the place where the horizontal passage joined the vertical shaft, an arch of limestone was made, and on top of this more limestone was placed, until the shaft was completely filled. A fire was then built under the arch, and the burning was continued until the stone was calcined. At a somewhat later date kilns were built in the open, having vertical walls of masonry of a circular or square cross section, but in other ways resembling the shaft in the side of the hill. These types of kilns are still to be found scattered throughout this country. From these early and crude types of lime kilns, the modern shaft kiln, with separate ovens for the fuel, has been developed.

Three factors have operated jointly to keep the lime industry in a comparative simple, primitive and undeveloped state.

First, the prevalence and wide distribution of lime rock. Limestone occurs in every State and Territory of the United States, although some States are so poorly supplied (such as Delaware, North Dakota and Louisiana) that they never can become important producers. This general distribution of the raw material has resulted in many small plants, often poorly and uneconomically constructed, scattered throughout the whole country.

Second, the ease of burning the stone to lime. The comparative easy and simple process of burning, with the resulting small outlay of capital required to erect a plant, has caused many persons to enter the business without familiarity or previous knowledge of it. Such plants are generally operated in an uneconomical manner and produce a poor quality of lime, the operators often being satisfied with day wages as a return on their investment.

Third, the perishable character of the burn-

ed lime. The perishable character of lime has also contributed to keep the burning in the hands of small producers located near some convenient market.

It is to be expected that a business which requires a small initial outlay of capital and that is so simple that the ordinary man can undertake it with fair success, would remain in a somewhat crude and primitive condition. It is impossible for the individual producer to retain the services of engineers and experts to introduce economies and the best methods of burning, since the output of the plant could not warrant the expense.

These conditions have materially changed in the past few years. Improved methods of quarrying, handling the stone and burning, while requiring more capital, have resulted in a decreasing cost per unit of output, and larger, more economically operated plants have thus caused the closing down or abandoning of many smaller crude plants. A larger factor in bringing about the centralization of the industry into a comparatively few advantageous locations has been the railroads. A plant well located as to transportation costs can reach broader markets more economically than many small plants. Thus the availability of transportation is to-day concentrating the industry in spite of the three factors mentioned, which by themselves would have kept the industry in the hands of many small producers.

In spite of improvements in the methods of producing lime, greater ease of transportation and of larger, more economical plants, the output of the kilns, that is, the burned lime, is brought into the market in much the same manner as it was centuries ago. Further, the method of using the lime has scarcely changed.

One of the earliest examples of the employment of mortar in masonry is presented by the Pyramids of Egypt. An examination of the mortar between the stones in the Pyramid of Cheops has shown it to be identical with that employed in Europe to-day, although its preparation must have taken place more than two thousand years before the Christian Era. Mortar made from lime was employed by most of the ancient races, notably the Phoenicians, Greeks and Romans. It is a sad commentary on the progress of the lime industry that the product is brought into the market in the same immature, crude, perishable form to-day as it was two thousand years before Christ.

The only improvement in the form of the merchantable lime known to the writer is that of hydrated lime. The fact that lime could be slacked to the form of a dry powder has long been known, and three methods have been used in the past to produce this powder.

1. Lime, in comparatively small pieces about the size of an egg, is placed in a basket and immersed in water for one or two min-

utes, until hydration has commenced, when it is withdrawn. The wet lime is generally put in heaps or silos in order to conserve the heat and prevent the escape of the vapor. The material swells, cracks and becomes reduced to a dry powder.

2. Lumps of lime were placed in a heap and wetted at intervals so that the mass is equally moistened throughout. The slacking proceeds as in the first instance.

3. Small pieces of lime are exposed to the air for a number of months. The material absorbs both water and carbon dioxide from the atmosphere, falling to dry powder. The powdered form consists of a hydrated sub-carbonate of lime containing about 10 to 11 per cent. of water.

These methods of dry slacking lime are crude, and without the greatest care is exercised, the resulting product will contain particles of unslacked lime. Further, the hydrates produced by these methods are generally short and possess poor sand carrying capacity; in fact, hydrated lime produced by any of the above methods is only suitable for use on the soil, and such hydrates should not be confounded with hydrated lime manufactured by modern methods.

The modern method of manufacturing hydrated lime depends upon the addition of an exact amount of water to a pre-determined exact amount of lime. By no other method is it possible to produce a hydrate which will contain sufficient combined water to satisfy the demands of the calcium oxide present. It is important that all the calcium oxide is satisfied, otherwise the hydrate will be unsound and unsuitable for many uses.

This point will be insisted upon in any specifications that may be drawn for hydrated lime to be used in the building trade. It is vital that each manufacturer recognizes the fact that the formation of hydrated lime is a chemical change, involving the presence of exact amounts of lime and water. Since the process is chemical it requires the same careful supervision as any other chemical process, such as the manufacture of Portland Cement. The production of hydrated lime has been retarded more by the manufacture of only partly hydrated lime than from any other cause. It has only been a few years since it was nearly impossible to buy completely hydrated lime, and even at the present time the records of our laboratories show that more unsound hydrate is offered for sale than sound material, for which conditions the manufacturer is directly responsible. From a selfish standpoint, it is to the advantage of the manufacturer to produce a completely hydrated lime, since such a lime contains the maximum amount of water. Again, honesty is shown to be the best policy.

One has to but glance through the proceedings of the National Lime Manufacturers' Association to learn that all are interested in the subject of hydrated lime. From 1904 to date, papers have been presented at each of the annual meetings, and every succeeding year the number of papers have increased.

It is to the interest of progressive manufacturers to build their business to such

dimensions as to warrant the employment of skilled experts and engineers, in order that the cost of manufacturing may be reduced to the lowest possible unit, and, further, to present your products to the market in such form that they will keep and at the same time be convenient to use. The day of the barrel is passing. It is not feasible to market a bulky commodity in a package worth practically as much as the contents. How long will you continue to ship lime in bulk, with the accompanying inconvenience and loss by air slacking? These are questions worth the careful attention of each individual. Does not the manufacture of hydrate offer a solution to most of the troubles encountered in the marketing of lime?

I have often heard the statement that mortar made from hydrated lime is not as smooth working as that made from lump lime when slacked to a putty. This may or may not be true. If it is true, is it not possible to prepare a hydrated lime which will give as smooth working a mortar? Are not your most serious competing materials, hard wall plaster and cement, even less smooth in their working qualities than hydrated lime? If the mortar made from competing materials is less plastic than that made from hydrated lime, is the slight loss of plasticity of the hydrated lime mortar as important a factor as we often think it?

Advantages of hydrated lime from a manufacturer's standpoint: One of the greatest difficulties in connection with the burning of lime is due to the perishable quality of the product. In general this means that the common form of lime, lump lime, cannot be stored for any great length of time without deterioration, and this makes the operation of the plant dependent upon the seasons and the whims of the weather. Kilns are fired up, damped down or put out, according to the season of the year and the condition of the weather. This unevenness of operation results in higher unit cost. Since hydrated lime can be stored in bins, in a manner similar to cement, it is therefore possible to make the operation of the plant more continuous, thereby introducing economies in the unit costs. Further, the manufacture of hydrated lime also means an increased market, since hydrated lime can be used for a number of purposes for which lump lime is not suitable.

Advantages to the dealer: The greatest advantage to the dealer is the ease of handling, less deterioration of the product, and the freedom from fire risk. These three facts alone should convince the dealer that it is more economical to handle hydrated lime than lump lime.

Uses of hydrated lime: In general it may be stated that hydrated lime is suitable for any use in the building trade to which lump lime can be put, and it would appear that as soon as the material comes into general use, its advantages will be found to far outweigh any disadvantages. The use of hydrated lime does away with the necessity of slacking lime to a paste, thus saving the large amount of space required, as well as the labor. Since hydrated lime comes into the market

in convenient packages, it is possible to proportion the mortar so as to have exact quantities present. This point is always appreciated by the architect and engineer, since it is a well-known fact that when lump lime is used as much sand as possible is added to it, with the result that the mortar is lean and possesses little strength. The sand carrying capacity of lump lime has been much overrated, especially by the manufacturer, with the result that it is the common practice to oversand the mortar. This appears to me to be an illogical position for the manufacturer to take, since it means the use of less lime. We do not hear of the cement manufacturers stating that cement mortar should be oversanded; in fact, it is the custom whenever cement is used, to definitely specify the proportions of the materials to be added to it. The same position should be taken in reference to the use of lime. As to the uses of hydrated lime in general, it may be stated that they are identical with those of lump lime, except in such chemical industries where the heat of slacking becomes an important factor. To the writer's knowledge, hydrated lime has supplanted lump lime in a number of chemical industries for the following reasons: The greater convenience in handling, the ability to more definitely proportion the amount used and because of the more uniform lime content of this product. This has been the case even where the cost per ton of hydrating lime is higher than that of lump lime. If hydrated lime is correctly manufactured, and the particle of core and unhydrated lime removed, the resulting product possesses a higher grade of purity than the original lime from which it was made. Further, the product is more uniform, and these two facts appeal strongly to the chemical users of lime.

Strength of mortars produced from hydrated lime: In June, 1910, the writer presented the results obtained from an extended series of tests on both hydrated and lump lime mortar, to the American Society for Testing Materials. One of the most important conclusions drawn from these investigations was that the mortar produced from hydrated lime was stronger than that produced from the corresponding lump lime slacked to a paste. This conclusion was to be expected, since it is possible to manufacture hydrated lime by mechanical means under good chemical control, which is more thoroughly slacked than it is possible to slack lump lime on the job. The user in dealing with hydrated lime is handling a tested product which can be definitely proportioned and will produce known results. With lump lime the user is dependent always upon the thoroughness of slacking, and it is well known to all users of lime that unless the paste is run off and stored for some considerable time, there is no assurance of complete and thorough slacking.

Practically all those who investigated the strength of lime mortars have recommended the use of hydrated lime rather than lump lime. In Bulletin No. 30, of the Bureau of Standards, the following statement is made: "The proportion of impurities in hydrated

lime is generally less than that in the lime from which it is made. In building operations hydrated lime may be used for any purpose in place of lump lime, with precisely similar results. The consumer must pay the freight on a large amount of water, but the time and labor required for the slacking is eliminated and there is no danger of spoiling it either by burning or incomplete slacking. * * * For all building purposes hydrated lime is to be preferred to lump lime. By its use the time and labor involved in slacking may be saved and the experience of the laborer is eliminated as a factor in the problem." From the above it will be seen that those who have carefully investigated hydrated lime are firm in their opinion that it is superior to lump lime.

In conclusion it may be stated that hydrated lime possesses advantages for the manufacturer, dealer and user.

To the manufacturer it means more uniform operation of the plant, less waste in the form of fine lime and forkings, no loss through air slacking, the doing away with the barrel plant and the manufacture of a product possessing good keeping qualities.

To the dealer it means no fire risk, no loss by air slacking, no barrels to add to the cost of lime, and a more convenient package.

To the user it presents a material possessing all the advantages of lime with none of its disadvantages, the certainty of producing a mortar having definite proportions of lime and sand, and further, this mortar possesses greater strength than ordinary lime mortar.

To sum the whole matter up, it may be stated that hydrated lime is the coming form in which lime will be brought into the market, or, in other words, hydrated lime is The Twentieth Century Form of Lime.—"Rock Products."

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Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

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PHILADELPHIA, PA., JULY 1, 1914.

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Editorial Comment

The "Improvement Bulletin," of Minneapolis, had a few paragraphs in a recent number that should be carefully pondered by the young architect who wonders why "all the big commissions go to a few men." We hear a great deal in the pages of the architectural magazines about the man who regards the architect's fee as an unnecessary expense. Here is a glimpse at another side of the question—the man who believes in architectural design, is willing to pay the commission fixed in such cases, but hesitates about entrusting the expenditure of a considerable sum of money to the youthful and more or less visionary and inexperienced beginner. This side of the medal is, as a rule, overlooked.

"In a recent conversation with a man who has spent a very large sum on one modern downtown building, of much detail," says the "Improvement Bulletin," "he asked us to try to realize the position of an investor, trying to choose an architect, after deciding to erect a structure of high cost.

"Imagine," he said, 'a man who is not acquainted by experience or otherwise with any architect. He has reached the point where he needs one, and is to spend through his guidance, from \$600,000 or \$800,000 to \$1,000,000. How is this investor to find which architect he would better engage? He wants the man who knows best how to build say, a theater, or hotel, or office building. He wants the man of the best character so that there will be no needless waste of money. He wants the man equipped with the most complete knowledge of practical details. Such a man knows what he is about in avoiding blunders and watching the construction. There is where the shoe pinches. The strong man on the stern facts of the building is the man the large investor wants. Then, of course, he wants a good design, an attractive exterior. Which way shall the owner, seeking such an architect for a big structure, turn? How shall he select?'"

If the edifice in view happens to be an office building, what is more natural than that the investor should turn to an architect who has established somewhat of a reputation in this line? If a theatre, who can blame him for drifting into the studio of the man who has designed and supervised the erection of other theatres? After all, success is its own justification. And the man who is preparing to lay out anywhere from a half million to a million dollars of his own money may be excused for showing a disposition to play things "safe."

The young architect may in many cases be better fitted for the work in hand than the older man with the established name. He may be a genius capable of flights as daring in the attempt as they are brilliantly original in execution—but. Always there is that

"but." And the moneyed man likes to be sure.

The result is—the man with the reputation gets the commission.

* * *

It is, therefore, up to the young man in architecture to bend his every energy to the building of reputation—to so handle each commission entrusted to him as to imbue investors, seeking something similar, with absolute confidence in his ability to handle it. Here is where the ancient trade doctrine of the satisfied customer comes in. Let us suppose the job is merely a bungalow. If the lines have a hint of grace, the interior is "livable" and well-planned, the building is worth the money expended and the job as a whole has kept within the estimate, it means a satisfied customer. "Who planned Jones' bungalow?" asks the next chap who gets ready to build. "Why, young Brown-Smythe," answers somebody. Brown-Smythe gets the commission to design another bungalow. Before he so much as realizes it, Brown-Smythe has a reputation. Yes, you echo, a reputation for designing bungalows. Well, suppose you substitute for bungalow in this little parable "country house," or "factory building," or "theatre." The difference is wholly one of labels. The principle in each is the same. Do one thing well, and the men who want that sort of thing done will gravitate to you as irresistibly as does the fly to the molasses jar. Do many things well, and you multiply your efficiency just so many times. But don't expect the wily old fox, who has accumulated millions in open competition with men who look upon money-hewing as a career, to hand you the spending of considerable sums solely because you happen to have a sheepskin diploma and the usual stock of youthful assurance.

The world reserves its capital prizes these days for the men who make good. The late J. P. Morgan is credited with saying: "If you succeed you're a success; if you don't you're a fool. That's all there is to it!" There is but one way to succeed—make good!

The man who makes good wins—in architecture as in everything else.

* * *

An architectural contemporary directs notice to the circumstance that the steeple, regarded at one stage in our development as an almost indispensable feature of church design, is going out of fashion,—like the sheathe gown, the hobble, the hipless skirt and other not long since regnant ebullitions of the popular whim. The newest tendency is to dispense with the steeple altogether, or to so modify it as to make it little worthy of the name. Originally the steeple was meant to typify aspiration. It symbolized the reaching up to God of the simple but reverential souls who designed our earlier churches. With

the growth of agnosticism came the decline of the steeple. To-day the steeple is becoming more intimately identified with the municipal and county building than with the church edifice. Just why furnishes an interesting subject for conjecture.

* * *

How easy it is for an architect to overlook items vitally essential in planning certain classes of buildings is well understood. Dan Olmstead, a widely known hotel manager, enumerated some of these in the course of a recent interview.

Speaking of the close relationship that exists between the building manager upon whom rests the responsibility for making the investment pay, and the architect who designs the structure, Mr. Olmstead said that he would like to be able to tell every person in the country who is contemplating the erection of a hotel to avoid making mistakes in designing like the following:

Using more than 80 feet of valuable street frontage for the hotel bar, when only the lobby entrance of the bar was needed; making the main dining room face an alley, while the lobby, barroom and cigar stand take up all the street frontage; placing bath rooms on the outside with windows the same size as those in adjoining rooms, allowing only one window for each of the latter; placing kitchens so far from the restaurant or dining room that food was cold before it was served; making the rooms so large that the amount of floor space covered necessitates such a high rate that rooms are vacant most of the time; making the bath rooms too small, necessitating the use of very small tubs and leaving only little space beside; putting in too few elevators and greatly impairing the service thereby; lack of clothes closets when every room should have one, and the failure to provide proper ventilation, which, in a hotel, is very important, and is sometimes overlooked by architects. The lighting feature is another matter not properly treated as a rule.

* * *

Building in all parts of the country for May shows an increase over the corresponding month a year ago. Permits were taken out in 88 leading cities for the construction of 21,994 buildings, involving a total estimated cost of \$71,118,570, according to official reports to "Construction News," as against 22,553 buildings, involving \$68,788,890 for the same month a year ago, a decrease of 559 buildings, but an increase of \$2,329,680, or three per cent., in the estimated cost. Of the 88 cities there were gains in 43, losses in 44, but practically all the larger cities all over the country show large gains. The one particular exception among the larger cities is Chicago, where the brick strike almost put an end to construction for a time. It shows a decrease of 22 per cent. as compared with the same month a year ago.

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

FIRE PREVENTION IN WARM AIR FURNACE WORK.

Proposed Uniform Law Governing Heating Installations That Is Suggested by the National Fire Protection Association.

The fire prevention movement is exerting a strong influence throughout the country. It is bringing a larger volume of good work into the shops of the sheet metal contractor and is making him an authority on fire resisting and fire retarding questions.

The average furnace man in his installations does not always respect the high standards of fire prevention that he knows are proper. It is safe to say that unless he is getting an unusually good price for his work, he turns out just an average job that is, good enough to be accepted and is paid for. He pays no more attention to the idealic questions of fire prevention than he does to making the installation as highly efficient as is possible.

The boiler man has one great advantage over the warm-air man in many sections, for a more rigid inspection is made of his work. The laws and ordinances governing boiler work are more rigid, and frequently more faithfully enforced. The warm-air furnace is simply a big stove, and anybody can set up and run a stove is a popular impression, but a boiler is surrounded with some mystery, is liable to "bust" and needs inspection.

The public is too well acquainted with stoves to be afraid of them and their fire hazard is under estimated. Everybody knows that the old-fashioned parlor stove had to have its zinc under it, but how many good mothers have put the rug over the front part of the zinc and up to the legs of the stove, just because it looked better. It is all right to do this as long as nothing happens. But sometimes things happen, and the whole family and a lot of policyholders pay well for it.

It is perfectly safe to put ashes in a wooden barrel, to try to find a gas leak with a lighted match, and to fill the tank of an automobile while smoking, if nothing happens. But occasionally the unexpected does happen, and then back sight becomes better than fore-sight.

In order to reduce the fire hazard and to protect life and property, the National Fire Protective Association was organized, nearly twenty years ago. This body has now a membership of over 2,500 associations and individuals. The National Association of Sheet Metal Contractors is one of the members on the active list. Much has been accomplished already by the National Fire Protection Association, but much more work is yet to be done before fire hazards are a thing of the past.

A great variety of questions are taken up and discussed in a scientific way by this association and a vast amount of information is given to the public. At the last convention, the committee on laws and ordinances sub-

mitted a large number of laws that are intended for uniform adoption throughout the country. The suggested ordinance to regulate the equipment, use and maintenance of heating apparatus and appliances contains many features that are of interest to the furnace man. This proposed uniform law is as follows:

Section 1. All horizontal boilers shall be encased on sides and top in brick setting, and shall not be supported on beams or floor construction made of wood or other combustible material.

Section 2. Vertical boilers may be supported by beams or floor construction of wood or other combustible material, but in such case the floor shall be protected by a covering of two courses of brick or hollow tile laid in cement mortar, or of concrete not less than four (4) inches in thickness; such covering shall be constructed upon and covered with a continuous sheet metal plate not less than three-sixteenths of an inch thick, having all joints substantially riveted and the bottom sheet the edges turned up four (4) inches on all sides. This floor covering shall extend under the whole of the fire box and ash pit of the boiler and outwardly not less than two (2) feet on all sides.

Section 3. All smokestacks or pipes shall have a clearance from any combustible material at all points of not less than one-half ($\frac{1}{2}$) the diameter of the stack, but never less than eight (8) inches, and where passing through the roof be guarded by a galvanized iron ventilating thimble extending from the under side of the ceiling or roof beams to be at least six (6) inches below the roof. No smokestack nor pipe shall pass through any combustible floor, side wall or partition.

Section 4. Heating furnaces, bakery ovens, coffee roasters, fire heated candy kettles or

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other similar appliances in which fires are maintained, when supported by beams or other combustible material, shall rest on a floor covering as herein provided for vertical boilers.

Section 5. No combustible wall nor partition shall be within four (4) feet of the sides or back or six (6) feet from the front of any boiler; unless said wall or partition shall be covered with metal to a height of at least four (4) feet above the floor, and this covering shall extend from the end or back of the boiler to at least five (5) feet in front of it, then the distance shall be not less than two (2) feet from the sides and five (5) feet from the front of the boiler.

Section 6. All woodwork within twenty-four (24) inches of any furnace or other heating apparatus shall be protected by metal shield with one-half ($\frac{1}{2}$) inch air space between woodwork and shield. No furnace, boiler, range nor other heating device shall be placed against a furred wall.

Section 7. All woodwork within three (3) inches of a register box shall be covered with asbestos not less than one-eighth ($\frac{1}{8}$) inch in thickness and sheet tin, extending three (3) inches on all sides beyond. Heat register openings in floors in buildings other than dwellings shall not have valves or shutters, but register face only.

Section 8. Horizontal hot air pipes leading from furnace shall be not less than six (6) inches from any woodwork, and shall be covered with asbestos one-eighth ($\frac{1}{8}$) inch thick, and shall have regulating damper at a point not more than two (2) feet from furnace.

Section 9. No hot air pipe shall be placed in a combustible wall or partition or wooden enclosure unless it be at least eight (8) feet distant in a horizontal direction from the furnace and be placed inside another pipe with at least one (1) inch air space between,

or completely covered with asbestos, one-eighth ($\frac{1}{8}$) inch in thickness. All double pipes referred to above shall be so braced or supported as to retain their relative position one within the other, and maintain the proper air space between them.

Section 10. The cold air boxes of all hot air furnaces shall be made of brick, metal or other incombustible material.

Section 11. No steam or hot water pipes shall be placed less than one (1) inch from any woodwork or other combustible material; and, when passing through floors or partitions, shall be protected by a metal shield.

Section 12. All floors, walls, ceilings, doors and partitions enclosing drying rooms where the temperature equals or exceeds 125 degrees shall be made of fireproof material. If temperature in dry room is under 125 degrees interior may be lined with one-eighth ($\frac{1}{8}$) inch asbestos covered with metal.

Section 13. For removing cooking fumes all hotel and restaurant ranges shall be provided with a metal hood, placed at least nine (9) inches below any lath and plaster or wood ceiling, having an individual pipe outlet connected with a good brick flue. All such ranges shall be set on foundation consisting of not less than two (2) courses of brick laid in mortar and covered and resting on galvanized sheet iron.

Section 14. All stoves set on combustible floors shall be properly supported on five (5) inch iron legs and have sheet iron underneath, which shall extend outwardly not less than eighteen (18) inches on all sides.

Section 15. All gas, gasoline, or oil burning stoves and heaters shall be placed on iron stands at least five (5) inches clear above combustible material on which they rest, unless the burners are at least six (6) inches above the base of the stoves and metal guard plates four (4) inches below the burners.

Section 16. No charcoal nor electric iron, soldering pot, glue pot, blow torch nor other apparatus in which heat is generated or utilized shall be placed in contact with any combustible substance, but must rest on some non-combustible stand with a clearance of at least five (5) inches from any combustible substance.

Section 17. All receptacles for ashes shall be of galvanized iron, brick or other incombustible material, and on legs so that the bottom of such receptacle shall be at least five (5) inches clear of floor.

Section 18. Heating or lighting devices with open flame shall not be used in rooms where woodworking, painting, finishing or upholstering is done, or light inflammable materials, gasoline or other volatiles are kept or handled.

Section 19. Vent flues or ducts, for the removal of foul or vitiated air, in which the temperature of the air cannot exceed that of the rooms, shall be constructed of iron or other incombustible material, and shall not be placed nearer than one (1) inch to any woodwork, and no such flue or duct shall be used for any other purpose.

Section 20. Any person or persons found

guilty of violating any condition of this ordinance shall upon conviction be subject to a fine of not less than five dollars (\$5) nor more than twenty-five dollars (\$25) for each offense, and each ten days of maintenance of prohibited conditions shall constitute a separate offense.

Section 21. All ordinances or parts of ordinances in conflict with the foregoing are hereby repealed.

Section 22. This ordinance shall take effect and be in force from and after its passage.

This suggested ordinance is worded plainly so that anybody can understand it. Being approved by the National Fire Protection Association would suggest that it is looked on with favor by the fire insurance interests and the various State fire prevention associations, and that it will probably be made a law in some places, either in this or modified forms.

If the furnace men feel that the provisions are too extreme, a request for a modification can be made to the National Association of Sheet Metal Contractors through its secretary, or through its accredited representatives of the National Fire Protection Associations at the next convention. The National Association of Sheet Metal Contractors was not represented at the last annual meeting, although matters of interest to the industry were acted on. If the furnace men deem the law to be a good one, they should make an effort to have it adopted, for it would raise the required standard of furnace installation over that generally demanded now.

A law somewhat of this character would undoubtedly reduce the number of cheap furnaces installed. The cheap furnace as a rule is not the profitable one for either the contractor or the owner. Would the furnace man be better off with less business, but with work of a higher character is the question for the furnace men of each town and city to answer for themselves.

If careful installation was compulsory, more attention would be devoted to efficiency, and warm air would gain many friends from the ranks of the radiator devotees.—“Sheet Metal.”

PLACE AND VALUE OF THE TRADE PAPER.

“Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country.”—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

INSIDE THE BRITISH COUNTRY HOUSE

Some Characteristics of English Interiors

If a case presents itself in which a given idea, or problem, is found to be carried out in two distinctly different ways, it is always interesting to trace and define, if possible, the causes for the divergence. Thus in the matter of country house interiors, in England and in this country, the idea, to wit, a characteristic scheme of interior treatment, is common, but the means used to develop its characteristic points, and the aspect of the finished product are at wide variance. This is the fact—what of the reasons, and wherein lies the widest difference?

The same answer disposes of both questions—it is to be said that not only cause but effect lie in the English point of view. It is not that we in this country could not architecturally evolve the English type of domestic interior, or technically execute it, but rather that we are not trying to—more exactly, that we are governed by a different set of ideas and ideals. It seems, in fact, to narrow down to a question of taste, which brings us back to the significance of the point of view. Nor are we to disregard or overlook such differences in national traits as enter into the question.

First, there is the proposition itself—an interior, or type of interior best suited for a country house. One is not considering, in this connection, the large country house, where elements of formality, and even a certain amount of grandeur must enter the scheme, but rather of that most desirable type (rare in this country, but characteristic of England) wherein the keynote is domesticity.

In this country it is a little unfortunate that by far the greater number of people who have country houses built for them, would seem to think first of the impression their house will create upon the beholder, and beholder, and last (if at all) of the pleasure they themselves, as dwellers in it, will derive from its design. The American architect has become accustomed to conferring with his client along two lines, dictated by the client's point of view toward the projected house—either that it shall be as nearly as possible like some other man's house, or as far as possible better than some other man's house. He will admit his client to be an exceptional case if the preliminary instructions for a house proceed along neither of these lines, but rather in the direction of individuality, personal independence, and general appropriateness. Politically we framed a Declaration of Independence, fought for it and established it as a doctrine, but architecturally we are slaves, the individual no more or no less than the nation. Loath to depart from precedent, we preferred debased adaptations of former architectural achievements, and assumed without question that if a thing was unlike anything we had seen before, it must, therefore, be undesirable.

A national architecture so pusillanimous naturally bred an individual doubly so—a man who was content to have a house exactly like his neighbor's, merely because he was sure of it, and too uncertain about anything else, and with him, the man whose idea of a house better than his neighbors', could find expression only in terms of size or expense.

To understand the exact nature of the effect which a point of view may have upon architecture, it is helpful to remember that there are manners in architectural usage precisely as there are in social usage, as well as that product of breeding known as "manner." Buildings may be vulgar, urbane, merely civil, distinctly superior, snobbish, bourgeois, or otherwise, exactly like human beings—and it is this personal aspect of architecture that few architects and fewer clients ever take into consideration, even supposing that they realize its potency.

Architecture, broadly speaking, can do little beyond holding up the mirror to the times or people which produced it, and this much it does to-day no less than in times past. Thus, the architecture of to-day in this country, good, bad and indifferent (with the preponderance in the last category) is a reasonably fair reflection of contemporary ideals. One speaks more particularly of domestic architecture, which reflects the character and tastes of the client (and hence of the country at large), while other classes of architecture reflect rather the character and tastes of the architect—that composite product of many influences, schools and ideals.

English domestic architecture is different from that of this country for the reason that it is a reflection of a very different set of ideas, governed by a very different point of view. The Briton, racially, is more independent, more sincere, more sure of himself than to allow his house to show no mark of individuality—no expression of character. Further, the man who is very sure of himself, socially, can afford to be informal without fear of being or appearing ill-bred, and this quality of easy, self-assured poise is precisely what differentiates English and American domestic architecture.

In the English country house there is a general sense of informality, and above all an impression that the house is a place to be lived in rather than lived for. It is not the burden of its dwellers' lives, but an integral part of them, intimate and essentially domestic. That it is picturesque may go without saying—the logical and obvious result of those elusive but potent elements which make it up. Quaint fireplaces, built-in book shelves, charming groups of casement windows, unexpected corners and turnings—everywhere a sense of frankness and the most thorough-going sincerity.

This quality of sincerity is one which I had not mentioned earlier, but a quality which is one of the basic elements of the English country house. It is sincerity of two kinds—structural and social. The actual structural facts of the house—its supports, its beams, its several members are frankly allowed to appear as such, free from sham or "fake" or concealment. The beams of a ceiling, plainly appearing to support the floor above, actually do so—they are not made up of thin boards glued together and hung, for effect, from a ceiling of otherwise concealed construction. And so throughout. One feels instinctively that a sturdy oak post is staunchly supporting some weight above, and that a great rugged beam across the living room is really just as big and just as strong as it looks—and the feeling is peculiarly satisfying.

It is doubtful if any successful result could be effected in the mere copying of an architecture which is so distinctly the outgrowth of centuries of evolution, and centuries of the development of a point of view. At some future time we may reach a stage of architectural development which will produce a type of country house which may be comparable, at least in the matter of sincerity, with the present English country house. In the meantime, there is a great deal to be learned from an intelligent study of an architecture which owes its character to the logical sequence of a normal development—the English country house of to-day, of which certain marked picturesque qualities are neither the means nor the end desired by the designer, but resultant rather from natural causes in a fabric which is sincere because it is an architectural reflection of the life and times to which it belongs. A mere slavish copy can never be sincere and the slavish copyist always misses the note of sincerity. It is worse than foolish for us to attempt to copy English plan or English expression in this uninspired and simian manner, but the spirit underlying both plan and structure we may always study with great and lasting profit and pleasure as well.—C. Matlack Price in "Arts and Decoration."

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BUILDING CONTRACTS

There are many forms of building contracts, ranging from the long, formally written typewritten instrument, full of legal phrases and technical terms, to the short, misspelled memorandum drawn up on butcher's paper. In entering into a contract, the parties should bear in mind that the written instrument, from a legal standpoint, is not itself the contract; it is merely the evidence of the contract. It should also be borne in mind that when parties put their agreement in formal writing the law presumes that it is the correct understanding of the parties, and oral evidence to vary the contract will not be permitted.

The writer suggests, as one of many good forms, the one given below. Many of its terms have withstood the test of lawsuits. The contract given is one whereby the builder furnishes all the material and labor. The contract may be modified to suit various circumstances, and the additions will prove of assistance in framing other provisions.

Skeleton Contract—Contractor to Furnish All Labor and Materials.

AGREEMENT made this day of 19...., between of party of the first part, and of party of the second part.

WITNESSETH: The party of the first part will hereinafter be designated as the owner, and the party of the second part as the contractor, singular number being only used, and the word "architect," used herein in the singular shall designate the plural.

FIRST. The contractor agrees within the space of working days from and after the date hereof, to furnish the necessary labor and materials, including tools, implements, and appliances required, and perform and complete in a workman-like manner all the mason, carpenter, plaster, plumbing, tinning, painting, sewer, roof and tiling work for a story building, and other work in connection therewith, shown and described in and by and in conformity with the plans, drawings and specification for the same, made by, architect employed by the owners, which are signed by the parties hereto, which plans, drawings and specifications are hereto attached and made a part thereof.

SECOND. Said building is to be erected on a lot situated in and described as

THIRD. The owner agrees, in consideration of the performance of this agreement by the contractor, to pay, or cause to be paid to the contractor, his legal representatives or assigns, the sum of dollars at the time and in the manner following, to-wit: Payments to be made as the work progresses, on the first day of each month, commencing on the day of, 19...., in sums equal to seventy-five per cent. of the value of the work done and materials furnished under this contract, up to the date of said payment, to be estimated according to

the whole contract price, and the balance of said contract price, viz., twenty-five per cent. of said contract price, to be paid after final completion of the work described in this contract. The proportion in value of said work and materials furnished to the whole contract price to be estimated by the architect.

(Or, if payments are to be made on the completion of special portions of the work, insert as follows: First payment, \$..... to be made when the brick work is up to the high grade, and the timbers laid; second payment, \$....., when the brick walls are up to the second story, and the timbers laid; third payment, \$....., when the brick walls are up to the third story, ready for the roof; fourth payment, \$....., when the roof is covered, floors laid, and all the plastering complete; fifth payment, \$..... (twenty-five per cent of the contract price, payable days after the final completion of the work).

In witness whereof, the said above parties have hereunto set their hands and seals the day and year first above written.

..... (Seal)
..... (Seal)
WITNESS,
.....

It often happens that the parties desire to insert various other clauses in the contract covering delays, certificates of the architect, alterations, arbitration, damage for delays, etc.

The following skeleton forms will give suggestions covering such matters. They should be inserted just before the clause beginning, "In witness whereof."

Clause for Working Drawings.

Said architect shall provide and furnish to the contractor all details and working drawings necessary to properly delineate said plans and specifications; and the work is to be done and materials furnished in accordance therewith under the direction and supervision and subject to the approval of said architect with a fair construction of the true interest and meaning of said plans and specifications.

Clause for Delays.

The time during which the contractor is delayed in said work by the acts or neglects of the owner or his employes, or those under him by contract or otherwise, or by the acts of God which the contractor could not have reasonably foreseen and provided for, or by stormy and inclement weather which delays the work, or by any strikes, boycotts or like obstructive action by employe or labor organizations, or by any general lockouts or other defensive action by employers, whether general or by organizations of employers, shall be added to the aforesaid time for completion.

Clause for Certificates by Architect.

When each payment shall become due, and at the final completion of the work, certificates in writing shall be obtained from the architect stating that the payment is due or

work completed as the case may be; and the architect shall deliver such certificates, or in lieu of such certificates shall deliver to the contractor in writing a just and true reason for not issuing such certificates, including a statement of the defects, if any, to be remedied, to entitle the contractor to such certificates. And in the event of the failure of the architect to furnish and deliver such certificates, or the writing in lieu thereof, within days thereof after a written demand for the same, the amount which may be claimed to be due by the contractor, and stated in the demand made for the certificate, shall, at the expiration of the three days thereof, become due and payable, and the owner shall become liable, and bound to pay the same on demand.

In case the architect delivers the writing aforesaid in lieu of the certificate, then a compliance by the contractor with the requirements of said writing shall entitle the contractor to the certificate.

Clause for Delay in Payments by Owner.

For any delay on the part of the owner in making payments after they shall become due and payable, he shall be liable to the contractor for any and all damages which the latter shall suffer; and such delay shall in addition operate as an additional extension of the time for completion aforesaid for the length of time of such delay. And such delay if for more than five days after the date when said installments shall have respectively become due and payable, shall, at the option of the contractor, be held to be prevention by the owner of performance by the contractor.

Clause for Alterations in Contract.

Should the owner or architect, at any time during the progress of the work, request any alterations or deviations from this contract, or the plans and specifications, either of them shall be at liberty to do so, and the same shall in no way affect or make void this contract; but the amount thereof shall be added to or deducted from the amount of the contract price aforesaid, as the case may be, by a fair and reasonable valuation.

Clause for Arbitration.

Should either of the parties to this contract be dissatisfied with the decision of the architect as to the valuation of extra work or work omitted, or work done, the disputed matter shall be referred to and decided by two competent persons who have a knowledge of building, one to be selected by the owner or architect and the other by the contractor; and in case they cannot agree, these two shall select an umpire and the decision of any two shall be binding on all parties.

Clause for Damages for Delay by Contractor.

Should the contractor fail to complete this contract within the time fixed for such completion, due allowance being made for the contingencies provided for herein, he shall become liable to the owner for all loss and damages which the latter shall suffer on account thereof, but not to exceed the sum of \$..... per day for each day said work shall remain uncompleted beyond such time for completion.—W. J] Stanton, in "The National Builder."

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Roofing Slate.

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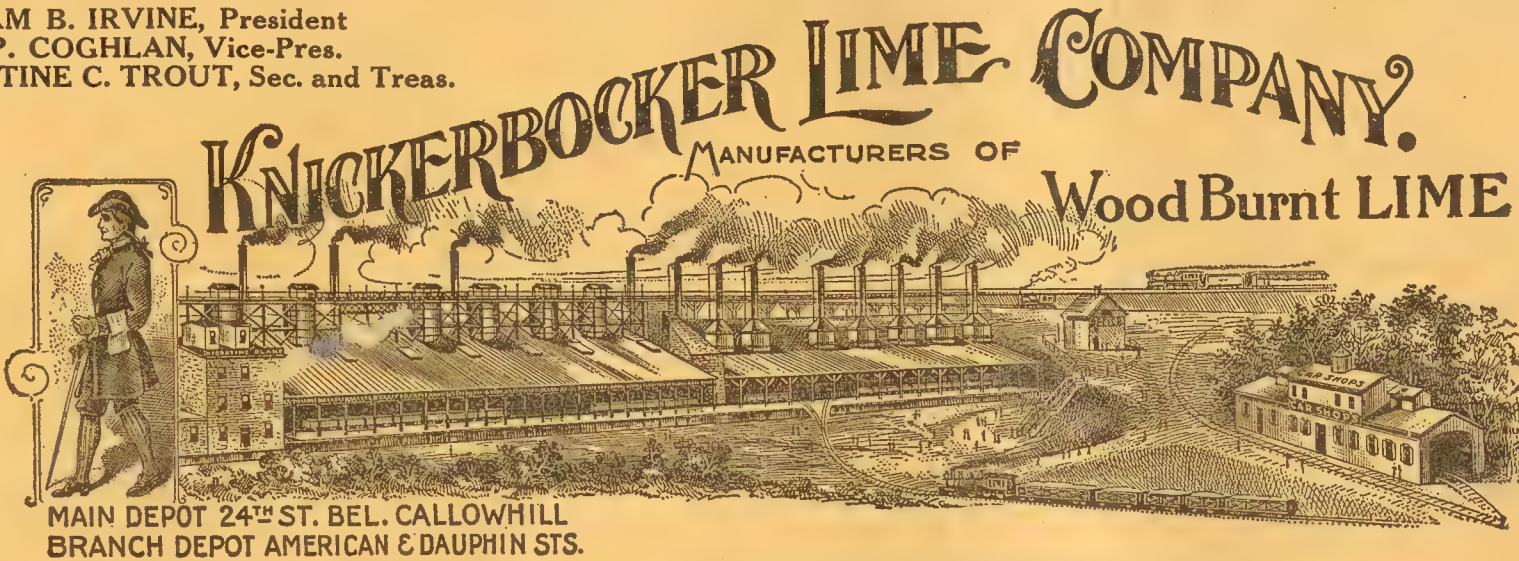
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Vol. XXIX., No. 27.

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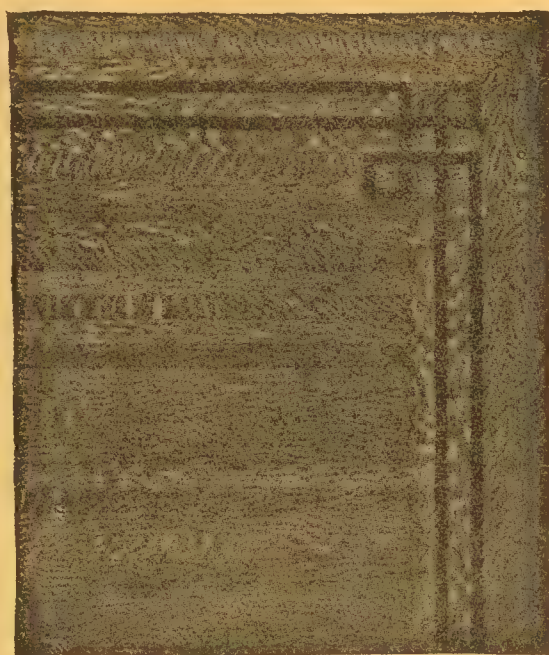
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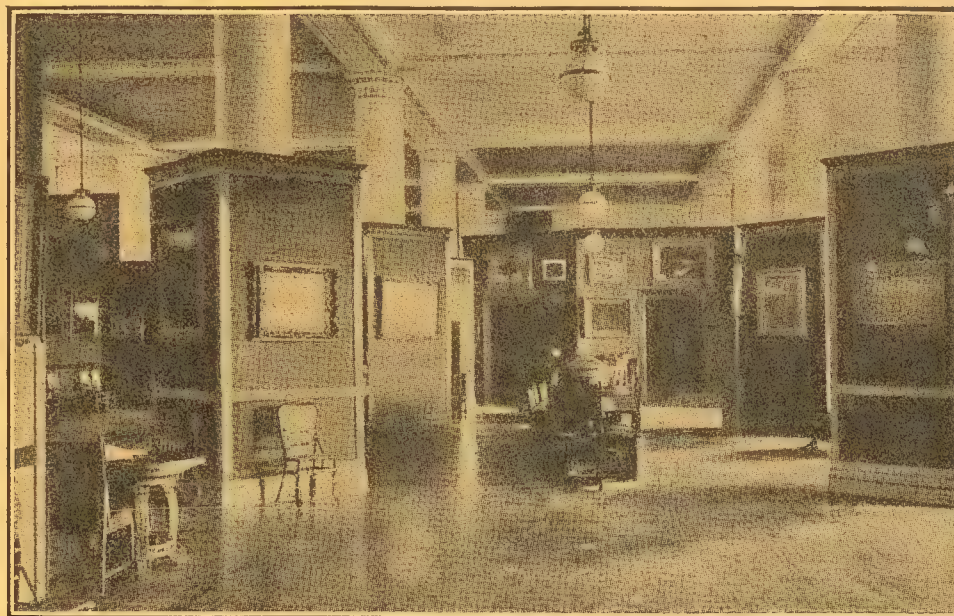
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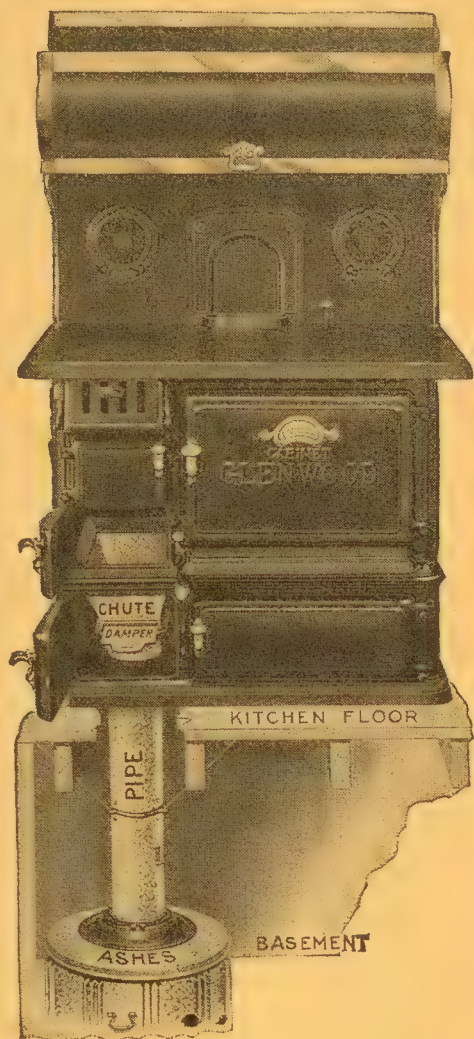
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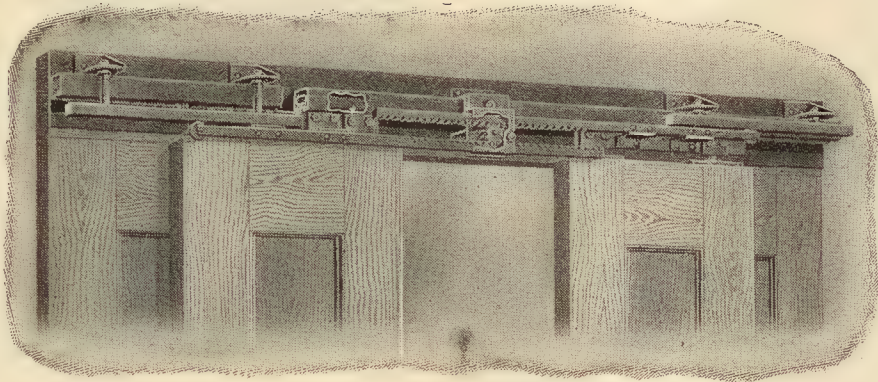
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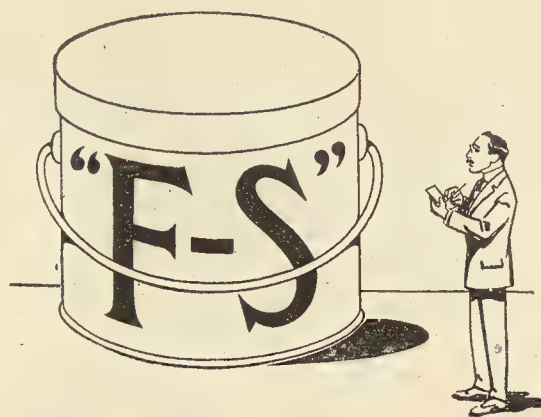
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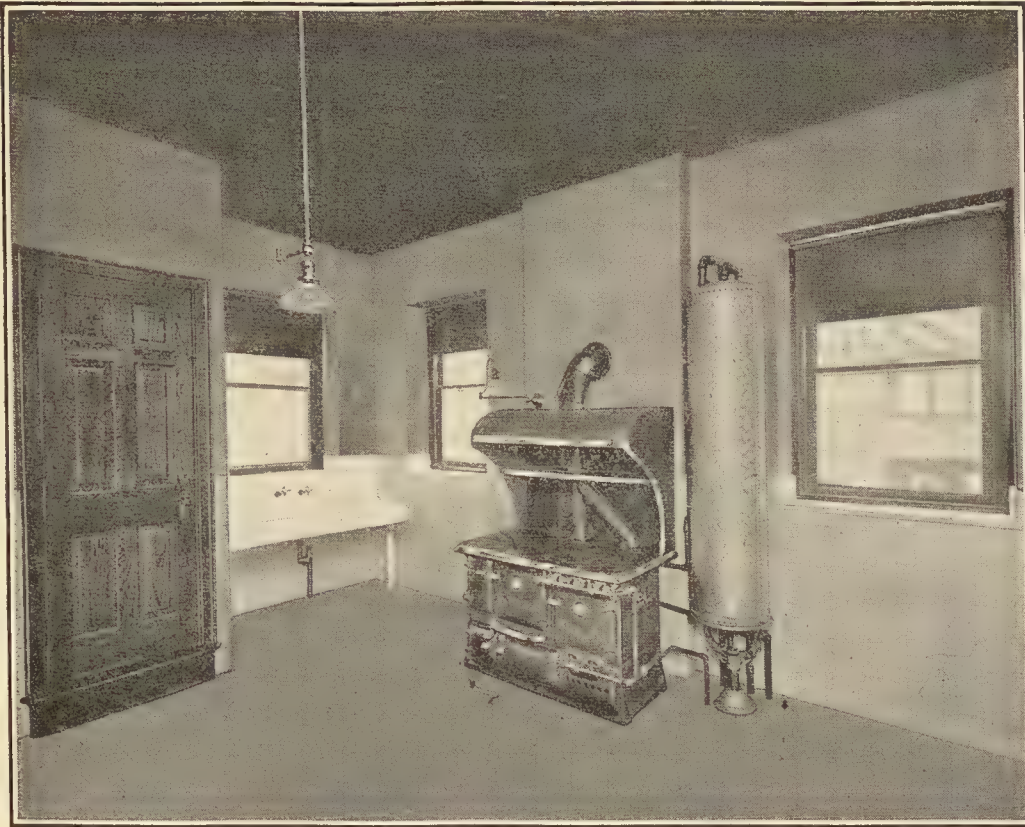
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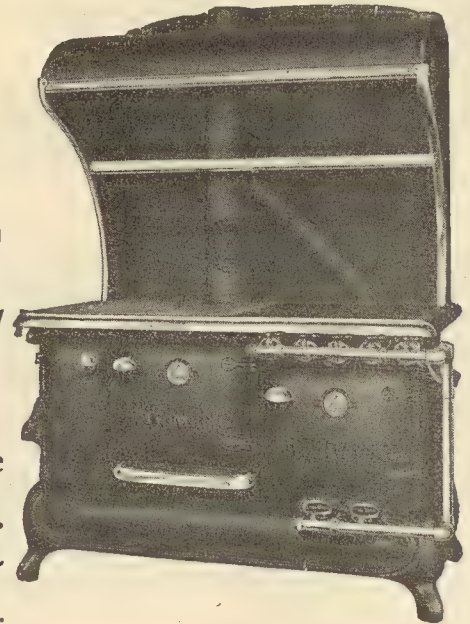
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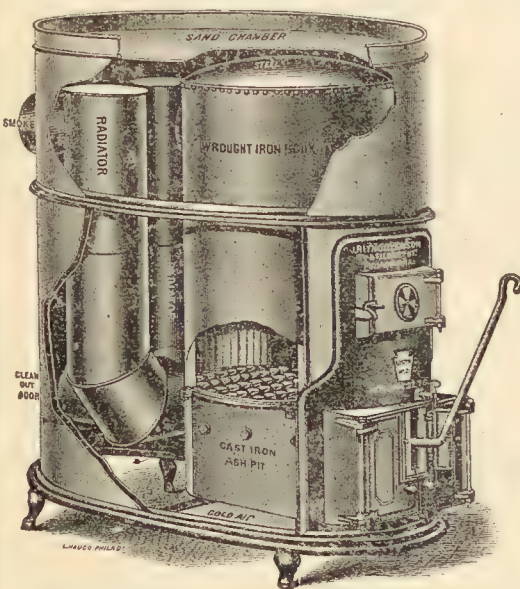
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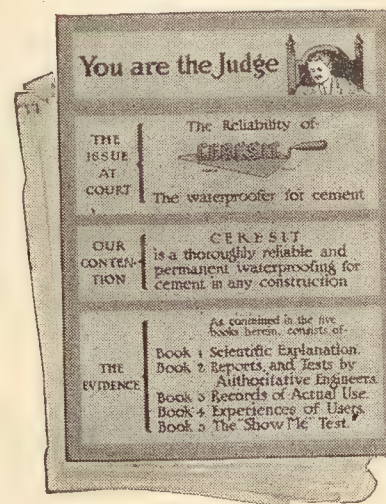
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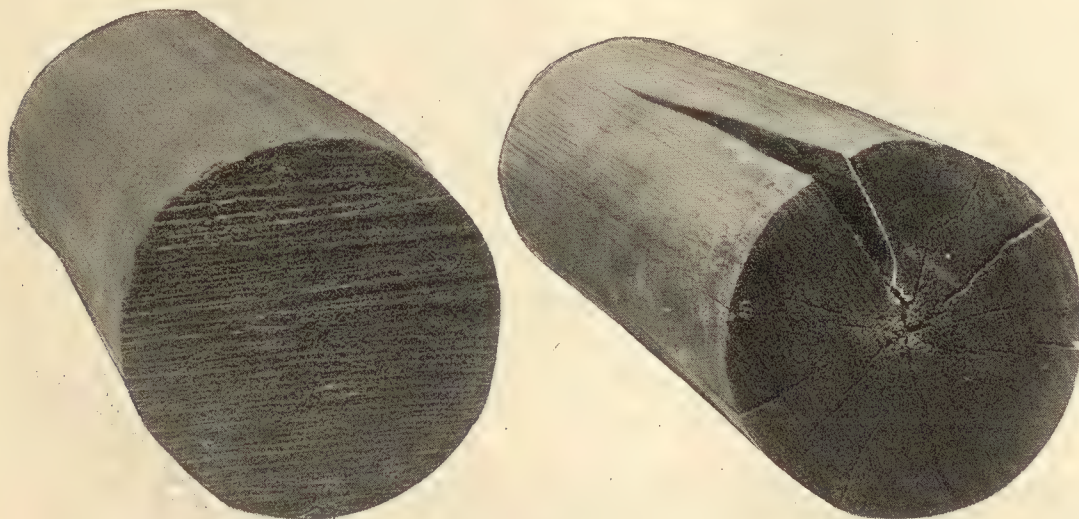
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We illustrate two pieces cut from the same log, one treated with Saums Preservative, the other untreated—both cuts being exposed to the weather for a period of three years. Number one shows the fine condition of the treated piece as compared with the weather-scarred section marked number two.

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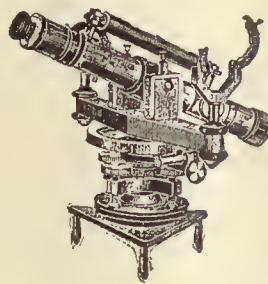
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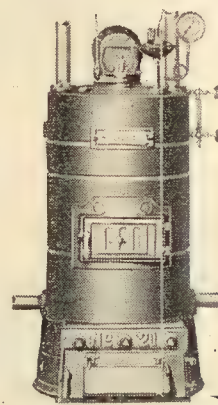


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Vol. XXIX., No. 27.

PHILADELPHIA, WEDNESDAY, JULY 8, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Operation of Residences, Sixtieth and Chestnut streets. Architect, Horace Trumbauer, Land Title Building. Owners, Joseph R. & John Connell, Land Title Building. Brick, 2 stories, slate roofs, steam heating, gas and electric lighting, hardwood floors, vacuum cleaning plant. Plans in progress.

Power House, Sixtieth and Chestnut streets. Architect, Horace Trumbauer, Land Title Building. Owners, Joseph R. & John Connell, Land Title Building. Brick and steel, 1 story; consists of power plant for furnishing heat and light. Plans in progress.

Piers (2), 38 and 40 South Wharves, Delaware River. Architect, private plans. Owner, Department of Wharves, Docks and Ferries, Bourse Building. Brick, stone and concrete, 2 stories, 183x551 feet (slag roof, heating, lighting, rolling steel doors reserved), metal sash and frames, metal laths, safety treads. Owners taking bids due July 20th. In addition to those previously reported, J. E. & A. L. Pennock, Land Title Building; Cramp & Co., Denckla Building; P. J. Hurley, 1233 Cherry street; E. F. Fonder, Land Title Building, are figuring.

Factory Building, Comly and Milnor streets. Architects, Ballinger & Perrot, 1211 Arch st. Owners, Quaker City Rubber Co., 629 Market street. Brick, steel and concrete, 4 stories, slag roof, electric lighting, 50x150 feet, metal sash and frames, water-proofing. Architects taking bids due July 9th. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Harrison C. Rea Co., 1027 Wood street; Turner Concrete Steel Co., 1713 Sansom street; Haibach Construction Co., Twenty-sixth and Thompson streets; William Steele & Sons Co., Sixteenth and Arch streets; S. S. Wilmer, Wissinoming, Phila.; James H. Wells, Heed Building; Ketcham & McQuade, 1025 Brown street.

Club House, 1616 Brown street. Architects, Sauer & Hahn, 1112 Chestnut street. Owners, Young Men's Hebrew Association, care of Morris Wolf, Secretary. Brick and terra cotta, fireproof, 3 stories, 60x160 feet. Plans about completed. Bids in a few days.

Farm House (alt. and add.), Walnut Hill, Pa. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets. Owner, George H. Lorimer, Wyncote, Pa. Frame, 2 stories, shingle roof, steam heating. Revised plans in progress.

Hospital, Howard and Diamond streets. Architects, Watson & Huckel, 1211 Walnut streets. Owner, Kensington Hospital for Women, 136 Diamond street. Brick, fireproof, 4 stories and basement, 50x70 feet, slag roof, steam heating, electric lighting, elevators, metal frames and sash, water-proofing, metal lath. Plans completed. Architects ready for bids.

Residence, Fifty-fourth street and Overbrook avenue. \$10,000. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, name withheld. Brick, stone trimmings, 3 stories, slate roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress.

Store (alt. and add.), 1316 Walnut street. Architect, Albert F. Schenck, Real Estate Trust Building. Owner, James Kater, 1316 Walnut street. Brick, 4 stories, oak floors, electric lighting; consists of interior alteration and addition. Architect has received bids.

Sub-Stations (4), Various locations. Architect, W. H. Cookman, Broad Street Station. Owner, Pennsylvania Railroad Co., Broad Street Station. Brick, steel and concrete, 1 and 2 stories, 30x64 feet, tile roof, metal sash and frames. Located at Paoli, Bryn Mawr, Thirty-second and Market streets and Arsenal Bridge. Plans in progress. Bids in 2 weeks.

Residences (14), Fifty-seventh and Hoffman streets. Architect, E. Allen Wilson, 1205 Chestnut street. Owners, Wingate & Maloney, 305 South Fifty-second street. Brick, 2 stories, slag roof, hot water heating, gas and electric lighting. Owners taking sub-bids.

Residences (56), Fifty-seventh and Catharine streets. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, Marshall & Gorman, Fifty-second and Arch streets. Brick, 2 stories, slag roof, hot water heating, gas and

electric lighting, hardwood floors. Plans in progress.

Stores (5), Twentieth street and Limekiln pike. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, name withheld. Brick, 2 stories, slag roofs, steam heating, electric lighting. Plans in progress.

Residences (65), Sixty-fifth street and Woodland avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, James Arthur, Second street and Allegheny avenue. Brick, 2 stories, slag roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Owner ready for sub-bids.

Sunday School, Forty-first street and Mantua avenue. Architects, Lachman & Murphy, Witherspoon Building. Owner, Calvary Evangelical Lutheran Church, on premises. Brick, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Plans in progress. Bids in 10 days.

Church (alt. and add.), Penn and Chew sts. Architects, Charles Bolton & Sons, Witherspoon Building. Owners, Presbyterian Church of the Redeemer, on premises. Stone and terra cotta, 1 story, slate roof, electric lighting. Plans in progress.

Residence, Somerton, Phila. Architect, H. L. Reinhold, 1309 Walnut street. Owner, C. Worthington, care Central Trust & Savings Co., Fourth and Walnut streets, Phila. Hollow tile and plaster, 2½ stories, 32x35 feet, shingle roof, hot water heating, electric lighting, oak floors. Architect taking bids due July 8th. C. Shock, Parkland, Pa.; William Burbeck, Somerton, Pa.; F. E. Heston, Churchville, Pa.; W. John Stevens, Wyncote, Pa., are figuring.

Residence (alt. and add.), 2047 Federal st. Architect, B. J. Medoff, 524 Walnut street. Owner, Jacob Baskeztz, on premises. Brick, 3 stories, 14x17 feet, slag roof, hot air heating, electric lighting. Plans in progress.

Residence (alt. and add.), 1732 Pine street. Architect, E. S. Caxson, 729 Walnut street. Owner, Dr. J. H. W. Rhein, on premises. Brick, 3 stories, slag roof, electric lighting, oak floors, metal lath. Architect has received bids.

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Residence, Sixty-sixth street and Woodbine avenue \$25,000. Architect, Horace Trumbauer, Land Title Building. Owner, Walter Bassett Smith, Wynnewood, Pa. Brick and limestone trimmings, 3 stories, Vermont green slate and slag roof, steam heating (central plant), red oak floors and expanded metal lath (electric lighting, metal weather strips and vacuum cleaning plant reserved). Contract awarded to Milton W. Young, Overbrook, Phila.

Residence (alt. and add.), 640 Carpenter st., Gtn. Architect, J. Horace Frank, Real Estate Trust Building. Owner, Mr. E. J. Flood, 616 West Sedgwick street. Frame, 2½ stories, 26x35 feet, shingle roof, electric lighting (hot air heating and parquet floors reserved). Contract awarded to W. C. Wright, 22 Harvey street, Gtn.

Store Building (alt. and add.), 139-143 S. Broad street. \$1,500. Architects, Hoffman & Co., Juniper and Market streets. Owners, Talking Machine Co., on premises. Brick, 2 stories, consists of interior alteration and addition, hardwood floors, metal lath, safety treads, tile work. Contract awarded to Lam Building Co., 1001 Wood street.

Sunday School and Gymnasium (alt. and add.), Germantown avenue and Upsal street. \$9,000. Architects, Heacock & Hokanson, Baily Building. Owners, Second Baptist Church of Germantown, on premises. Stone and brick, 2 stories. Plans in progress.

Residences (44), Thirteenth and McFarren streets. Architect, private plans. Owner, Charles J. Heckler, 3001 North Croskey st. Brick, 2 stories, 16x45 feet, slag roof, hot water heating, electric and gas lighting, hardwood floors. Owners taking sub-bids on all lines.

Theatre, 1529-31 Chestnut street. \$50,000. Architects, Henon & Boyle, 10 South Eighteenth street. Owner, Alexander R. Boyd, Juniper and Market streets. Brick and terra cotta, 1 story, 47x165 feet, slag roof, steam heating, electric lighting. Bids in ten days.

Apartments (alt. and add.), Spruce and Camac streets. Architect, C. E. Oelschlager, Harrison Building. Owner, Harry H. Platt, 1216 Spruce street. Brick, 4 stories, 17x45 feet, slag roof, steam heating, tile work, electric lighting. Architect taking bids due July 9th. I. T. Shoemaker, 6910 Mower street; F. A. Havens Co., 845 North Nineteenth street; P. J. Hurley, 1233 Cherry street; E. J. Kreitz-

burg, 1345 Arch street; J. Richard Jackson, Perry Building; Stacy Reeves & Sons, 2011 Market street; Frank Lucchi, 1351 Christian street, are figuring.

Garage (alt. and add.), Twentieth and Pine streets. Architects, Henon & Boyle, 10 South Eighteenth street. Owner, Avon Garage, on premises. Brick, 2 stories, slag roof, metal sash and frames (lighting and heating reserved). Architect taking bids due July 8th. The following are figuring: M. L. Conneen & Co., 2015 Cuthbert street; John McKenna & Sons, 1032 Race street; John McShain, 631 North Seventeenth street.

Church (alt. and add.), Penn and Chew streets, Germantown. Architects, Charles Bolton & Sons, Witherspoon Building. Owners, Presbyterian Church of the Redeemer, on premises. Stone and terra cotta, 1 story, slate roof, electric lighting. Architects taking bids, due July 14th. The following are figuring: Burd P. Evans Company, Thirteenth and Wallace streets; Harrison C. Rea Company, 1027 Wood street; T. C. Trafford, 1613 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; W. J. Gruhler, 219 High street.

Boiler House, Frankford, Philadelphia. Architect, Stewart A. Jellett, Franklin Bank Building. Owners, Miller Lock Company, 4523 Tacony street. Brick and concrete, 1 story, 34x44 feet, cement tile roof. Architect taking bids, due July 10th. The following are figuring: Barclay White Company, Perry Building; William Steele & Sons Co., 1600 Arch street; F. A. Havens Company, 845 North Nineteenth street; A. R. Raff, 1635 Thompson street.

Schools (alt. and add.), (40), various locations. Architect, J. Horace Cook, Land Title Building. Owners, Board of Education, City Hall. Consists of general alteration and additions. Owners taking bids, due July 10th. The following are figuring: W. W. Anstine Company, 1214 Filbert street; Mitchell Bros., 2125 Race street; Abel Bottoms Sons & Co., 41 South Fifteenth street; T. C. Trafford, 1613 Sansom street; H. E. Baton, Twelfth and Sansom streets; J. H. Jordan, Thirty-first and Oxford streets; E. H. Sturts, 2613 Ridge avenue; E. C. Durell, 1713 North Twenty-fourth street.

Church (alt. and add.), Forty-sixth and Chester avenue. Architects, Stearns & Castor, Stephen Girard Building. Owners, Chester

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Avenue Baptist Church, on premises. Stone, 1 story, slate roof, electric lighting. Architects taking bids, due July 11th. H. E.

Baton, Twelfth and Sansom streets, and A. Raymond Raff, 1635 Thompson street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment House (add.), Broad and Lombard streets. \$7,500. Architects, The Stebelmer Studios, 35 South Sixteenth street. Owner, E. C. Brown, on premises. Brick, 3 stories, 18x60 feet, tin roof, steam heating, electric lighting, metal lath. Contract awarded to W. J. Robinson, 1508 Lombard street.

Stores and Apartments (6), Sixtieth street and Larchwood avenue. \$18,000. Architect, Hokanson & Van Vorhees, 4617 Locust street. Owner, C. E. Swoboda, 5341 Market street. Brick, 2 stories, 40x112 feet, slag roof, steam heating, electric lighting. Contract awarded to Ayer & Carmean, 5131 Market street.

Store and Residence (alt. and add.), 5135 Market street. \$3,400. Architect, private plans. Owner, Mrs. F. Andrews, on premises. Brick, 2 stories, slag roof, hot water heating, electric lighting. Contract awarded to D. F. Wholey, 1109 Indiana avenue.

Church (alt. and add.), Broad and Oxford streets. Architect, James Duffy, 1512 Arch st. Owner, Oxford Presbyterian Church, care of John Smaltz, Chairman, 315 North Twelfth street. Stone, 1 story, slag roof, expanded metal lath (heating electric work and lockers reserved). Contract awarded to F. I. Wintz, 1618 North Twenty-seventh street.

Residence, Germantown, Phila. \$20,000. Architect, E. B. Gilchrist, 1424 Walnut street. Owner, W. M. C. Kimber, 545 Wister street, Germantown. Stone, 2½ stories, 55x80 feet, tile roof (heating and lighting reserved) Contract awarded to Joel W. Hutton & Co., Harrison Building.

Connecting Bridges (23), Delaware River and Morris street. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, John T. Bailey Co., on premises. Steel, iron and slag roof. Contract awarded to Stacy Reeves &

Sons, 2011 Market street.

Manufacturing Building (alt. and add.), 5605 Germantown avenue. Architects, Ballinger & Perrot, 1211 Arch street. Owner, C. A. Asher, on premises. Brick, 3 stories and basement, 20x170 feet, slag roof, steam heating, electric lighting. Contract awarded to P. Haibach Construction Co., Twenty-sixth and Thompson streets.

Garage, St. Martin's, Phila. Architect, R. R. McGoodwin, 34 South Sixteenth street. Owner, J. S. McIlhenny, St. Martin's, Phila. Stone and brick, 1 story, 26x41 feet, shingle roof, hot water heating, electric lighting (gasoline storage reserved). Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Residence (alt. and add.), 330 North Fifty-second street. \$2,000. Architect, P. J. Klinges, 1012 Walnut street. Owner, Dr. E. C. Bender, on premises. Brick, 2 stories, 14x18 feet, slag roof, hot air heating, electric lighting. Contract awarded to E. E. Hollenback, Fifteenth and Race streets.

Residence (add.), Chestnut Hill, Philadelphia. Architects, Wilson Eyre & McIlvain, 1003 Spruce street. Owner, Jay Cook, 3rd, 122 South Fourth street. Hollow tile and plaster, 2½ stories, slate roof, electric lighting, cork tile floors, metal lath, waterproofing. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Residence (alts.), Cardington, Philadelphia, \$3,000. Architect, J. Fletcher street, Drexel Building, Philadelphia. Owner, Josiah White, Marlborough-Blenheim, Atlantic City, N. J. Stone and frame, 2½ stories, shingle roof, electric lighting (heating separate bid by architect). Contract awarded to H. E. Grau Co., 1707 Sansom street.

PENNSYLVANIA

Construction News

School (alt. and add.), McKinley, Pa. \$12,000. Architects, George Nattress & Son, Twelfth and Walnut streets, Phila. Owner, Abington Township School Board, Abington,

Pa. Stone, 1 story, 75x29 feet, slate and slag roof (heating and lighting separate bids). Owners taking bids due July 10th. The following are figuring: Specht & Sperry, Heed

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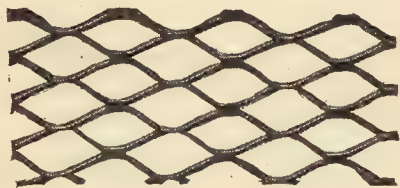
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329 Walnut Street, Phila.

Building; George Hogg, 1634 Sansom street, Phila.; Scott W. Hahn, Glenside, Pa. Plans may be obtained from Architects by a deposit of \$5.

Church, Pottstown, Pa. \$40,000. Architects, Lachman & Murphy, Witherspoon Building, Phila. Owner, St. James Lutheran Church, Pottstown, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. New plans in progress.

Residences (59), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Phila. Owner, Frederick C. Williams, 1546 North Twenty-third street, Phila. Brick, frame and plaster, 2 1/2 stories, 16x44 feet each, slate and slag roofs, hot air heating, gas lighting, expanded metal, iron fences. Architect taking sub-bids on all lines.

Residences (22), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Phila. Owner, Chester Realty & Construction Co., care of Architect. Brick, 2 stories, slate and slag roofs, hot air heating, gas lighting. Architect taking sub-bids.

Gate Lodge, Villa Nova, Pa. Architect, Horace Trumbauer, Land Title Building, Phila. Owner, Robert M. Montgomery, Villa Nova, Pa. Brick, 2 stories, 30x35 feet, slate roof, hot water heating, electric lighting. Architect has received bids.

Factory Building, Harrisburg, Pa. \$150,000. Architects, Day & Zimmerman, 611 Chestnut street, Phila. Owners, W. O. Hickok Manufacturing Co., Harrisburg, Pa. Steel and concrete, 4 stories. Plans in progress. Bids in 6 weeks.

Apartment House, Elkins Park, Pa. Architect, Borzner & Wood, 721 Walnut street, Phila. Owner, name withheld. Hollow tile and plaster, 3 stories, 68x142 feet, tile roof, steam heating, electric lighting. Architects have received revised bids.

Inspection Shed, Paoli, Pa. Architect, W. H. Cookman, Broad Street Station, Phila. Owner, Pennsylvania Railroad Co., Broad street Station. Steel and plaster, 1 story, 100x280 feet, slag roof (heating and lighting reserved), metal lath, metal sash and frames. Plans in progress. Bids in about 2 weeks.

Residence (alt. and add.), Haverford, Pa. Architects, Evans & Warner, Witherspoon Building, Phila. Owner, name withheld. Stone, 2 1/2 stories, 20x25 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Twin Residence, Hummelstown, Pa. \$6,500. Architect, George H. Grove, 213 Walnut st., Harrisburg, Pa. Owner, M. O. Swartz, Hummelstown, Pa. Stone, 2 1/2 stories, 40x52 feet, slate roof, vapor vacuum heating, hardwood floors. Owner ready for bids.

School (alt.), Enhaut, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, School Board, Enhaut, Pa. Brick, 2 stories, 37x90 feet, slate roof, American Heating & Ventilating Co.'s heating, electric lighting. Owners taking bids.

School, Bressler, Pa. \$7,000. Architect, C.

H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Bressler, Pa. Brick, 1 story, 40x60 feet, slate roof, electric lighting. American Heating & Ventilating Co.'s heating. Owners taking bids.

School (add.), Milton, Pa. \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, 2 stories, 2 room addition and new heating system. Owners taking revised bids due July 7th. The following are figuring: John W. Emery, 1524 Sansom street, Phila.; Fink & Seidle, Colonial Trust Building, Reading, Pa.; J. L. Menough, York, Pa.; Steinbach & Son, Lewistown, Pa., and G. B. Stryker, Auburn, Pa.

School, Milton, Pa. \$65,000. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, 2 stories, 71x156 feet, slag roof, damp-proofing (heating and lighting separate bids). Owners taking revised bids due July 7th. The following are figuring: John W. Emery, 1524 Sansom street, Phila.; Fink & Seidle, Colonial Trust Building, Reading, Pa. J. L. Menough, York, Pa.; Steinbach & Son, Lewistown, Pa., and G. B. Stryker, Auburn, Pa.

Post Office and Apartment House, Bryn Mawr, Pa. Architect, Lindley Johnson, Harrison Building. Owner, Philip Harrison, Bryn Mawr, Pa. Brick, 3 stories, 33x83 feet, slag roof, hot water heating, electric lighting. Architect taking bids due July 8th. Jacob Myers & Sons Co., Witherspoon Building, Phila.; Joseph J. Graham, Bryn Mawr, Pa., J. Morton Warner, Bryn Mawr, Pa., and Philip S. Davis, Bryn Mawr, Pa., are figuring.

Garage, Bryn Mawr, Pa. Architect, C. W. Churchman, 130 South Fifteenth street. Owner, Mrs. Charles R. Snowden, on premises. Stone, 1 1/2 stories, 19x24 feet, shingle roof. Architect taking bids due July 7th. The following are figuring: James G. Doak & Co., Crozer Building; J. Morton Warner, Bryn Mawr, Pa.; Harry S. Roberts, Grassland, Pa.; M. S. Hatch, Cooperstown, Pa.

Municipal Building, Lebanon, Pa., \$25,000. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owners, Lebanon Independent Borough, Daniel W. Hain, Clerk. Brick, brownstone trimmings, 2 stories, 42x70 feet, Washington vein slate roof, steam heating, gas and electric lighting, metal lath, waterproofing. Owners taking bids, due July 13th. Alex. Chambley, 243 South Tenth street, Philadelphia, is figuring.

Home (alt. and add.), Kennett Square, Pa. Architects, Heacock & Hokanson, Baily Building, Philadelphia. Owners, Friends' Boarding Home, Kennett Square, Pa. Brick, 2 stories, 34x65 feet, slate roof, electric lighting. Plans in progress. Bids in one week.

Bank Building, Elizabethtown, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Mechanics' National Bank, Elizabethtown, Pa. Stone, 1 story. Details not decided. Plans in progress.

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Rectory, Lancaster, Pa., \$20,000. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, the Yeates School, Lancaster, Pa. Stone and frame, 2½ stories. Details not decided. Plans in progress.

Store and Apartments (alt. and add.), Lancaster, Pa., \$6,000. Architect, Molvern R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Jet Sheetz, North Queen street, Lancaster, Pa. Brick and terra cotta, 3 stories, slag roof, hot water heating, gas and electric lighting, tile work. Architect taking bids, due July 11th. The following are figuring: Samuel H. Bally, 514 South Shippen street; H. L. Wiant, 544 Mill street; William H. Flick, 615 East Chestnut street; J. Grube, Benjamin Hall, all of Lancaster, Pa.

Residence, Jenkintown, Pa., \$7,500. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, S. R. Weaver, 1206 Chestnut street, Philadelphia. Frame and plaster, 2½ stories, 46x26 feet and 10x15 feet, shingle and canvas roof, warm air heating, gas and electric lighting, oak floors, expanded metal, tile work. Architect taking bids, due July 13th. The following are figuring: Specht & Sperry, Heed Building, Philadelphia; John F. Davies, Heed Building, Philadelphia; W. John Stevens, Wyncote, Pa.

Farm Building (alt. and add.), Elizabethtown, Pa. Architects, H. G. Carson & H. L. McLimans, 205 South Forty-second street, Philadelphia. Owners, Masonic Home, Elizabethtown, Pa. Frame, 1 and 2 stories, shingle roof. Owners taking bids, due July 8th. Pomeroy Construction Company, 1609 Ranstead street, Philadelphia, is figuring.

Farm Building, Broomall, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Norman Cantrell, Broomall, Pa. Frame, 1 story, 21x102 feet and 23x62 feet, shingle roof. Architects taking bids, due July 10th. H. E. Grau Co., 1707 Sansom street, Philadelphia, is the only bidder.

Hospital, Marcus Hook, Pa. Architect, W. A. Courtenay, Jr., Chester, Pa. Owners, State Quarantine Board, Bullitt Building, Philadelphia. Hollow tile and plaster, 1 story, 31x95 feet, asbestos shingle roof, hot water heating, electric lighting, composition floors. Plans may be obtained from the Secretary, H. D. Heller, M. D., upon deposit of \$10.00. Owners taking bids, due July 15th, 12.30 noon. The following are figuring: H. E. Baton, Twelfth and Sansom streets; James H. Wells, Heed Building; Guernsey-O'Meara Co., North American Building, all of Philadelphia.

School (alt. and add.), Abington, Pa., \$20,000. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, 86x57 feet, slate roof, electric lighting, extension to heat-

ing system, slate blackboards. Plans completed. Owners will advertise for bids in a few days.

School (alt. and add.), Willow Grove, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, electric lighting, extension to heating system, slate blackboards. Plans completed. Owners will advertise for bids in a few days.

School (alt. and add.), Weldon, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, electric lighting, extension to heating system, slate blackboards. Plans completed. Owners will advertise for bids in a few days.

Residence (add.), Bryn Mawr, Pa. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Walter C. Janney, Bryn Mawr, Pa. Stone and plaster, 2½ stories, shingle roof, hot water heating, heating extension, electric lighting, tile work. Architects taking bids, due July 13th. The following are figuring: Graham-Campion Co., Heed Building; James H. Wells, Heed Building, of Philadelphia; Gray Brothers, Rosemont, Pa.

School (alt. and add.), McKinley, Pa., \$12,000. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owner, Abington Township School Board, Abington, Pa. Stone, 1 story, 75x29 feet, slag and slate roof (heating and lighting separate bids). Owners taking bids, due July 10th. The following is the complete list of bidders: Specht & Sperry, Heed Building; George Hogg, 1634 Sansom street; McCloskey & Bahls, Hale Building; F. L. Hoover & Sons, 1023 Cherry street, all of Philadelphia; Scott W. Hahn, Glenside, Pa.; G. E. Blake, Glenside, Pa.; D. L. Benninghoff, McKinley, Pa.; S. E. Waters, Llanerch, Pa.; Harry Murphy, Willow Grove, Pa.

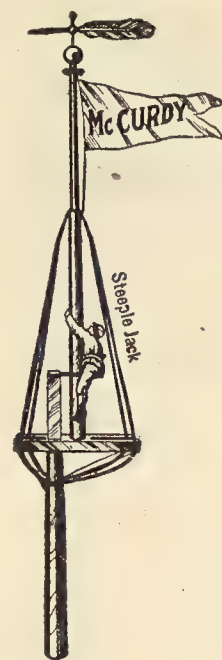
School, Bryn Mawr, Pa., \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick, granite and limestone trimmings, fireproof, 2 stories, 162x78 feet, inlaid slate and slag roof (heating and electric work separate bids), expanded metal lath, concrete floors, hollow tile, slate blackboards, structural slate, proposal bond. Owners taking bids (revised), due July 14th. James H. Wells, Heed Building; J. E. & A. L. Pennock, Land Title Building; A. Whitehead, Inc., 1624 Latimer street; Joel W. Hutton & Co., Harrison Building; Abel Bottoms & Sons Co., 41 South Fifteenth street; Jacob Myers & Sons Co., Witherspoon Building; George F. Pawling & Co., Broad and Vine streets, all of Philadelphia, are figuring.

PENNSYLVANIA

Contracts Awarded

Office Building and Freight Sheds, Allegheny, Pa. \$150,000. Architect, Mr. Devlin,

Engineer, Maintenance of Ways, Broad Street Station, Phila. Owner, Pennsylvania Rail-



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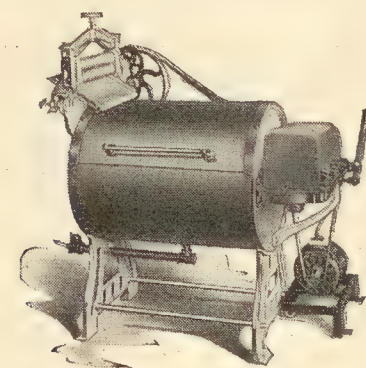
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Keystone, Race 60-17A

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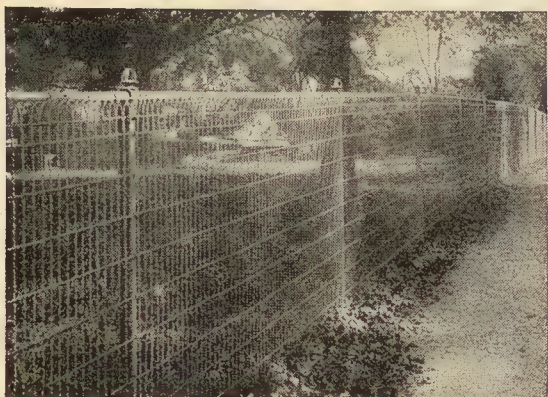
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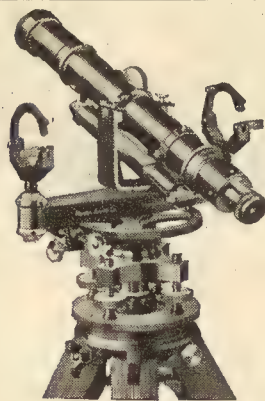
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PHILADELPHIA

ing, enameled glass brick, steel rolling shutters, metal frames and sash. Contract awarded to J. E. & A. L. Pennock, Land Title Building, Phila.

Residence, Merion, Pa. \$27,000. Architects, Duhring, Okie & Zeigler, Bailey Building, Phila. Owners, Charles R. Wentz, Land Title Building, Phila. Stone, 2½ stories, 100x36 feet, shingle roof, hot water heating, electric lighting, white oak floors. Contract awarded to A. L. Fretz & Son, 1222 Chancellor street, Phila.

Church (rebuilding), Frackville, Pa. \$5,500. Architects, Bissell, Sinkler & Tilden, Bailey Building, Phila. Owner, Christ Church, Frackville, Pa. Stone, 1 story, Bangor slate roof, electric lighting (heating reserved). Contract awarded to James H. Wells, Heed Building, Phila.

Store and Garage, Eleventh and Mulberry streets, Harrisburg, Pa. \$11,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, G. W. Myers, 225 Hummel avenue, Harrisburg, Pa. Brick and stone, 2 stories, 147x23 feet, composition roof, electric lighting, concrete floors, metal window sash, iron stairs. Contract awarded to Joseph Pomeroy, Harrisburg, Pa.

Store (alt.), Carlisle, Pa. \$5,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, S. Kronenberg's Sons, Carlisle, Pa. Brick and steel, 1 story, slag roof, electric and gas lighting, tile work. Contract awarded to H. A. Lackey, Carlisle, Pa.

Church, Lemoyne, Pa. \$12,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg,

Pa. Owner, Church of Christ, Rev. Minges, Lemoyne, Pa. Brick, hollow tile and stone trimmings, 2 stories, 72x63 feet, slate roof, heating undecided, electric lighting. Contract awarded to C. W. Strayer & Co., Union Trust Building, Harrisburg, Pa.

School (add.), Oxford, Pa., \$10,000. Architect, M. I. Kast, Commonwealth Trust Building, Harrisburg, Pa. Owner, Board of Education, Oxford, Pa., R. N. Griffith, Treasurer, Oxford, Pa. Brick, stone and terra cotta trimmings, 2 stories, 50x65 feet, tin roof, metal lath (steam heating and electric work separate bids. Contract awarded to Joseph T. Crowl, Lincoln University, Pa.

Double Residence, Harrisburg, Pa. \$2,500. Architect, George H. Grove, 213 Walnut st., Harrisburg, Pa. Owner, Mrs. Mary C. Black, 1616 North Green street, Harrisburg, Pa. Brick, 2 stories, 28x28 feet, back 12x16 feet, slag roof, hot air heating, gas and electric lighting. Contract awarded to Gettys & Bro., Harrisburg, Pa.

Power House (add.), Merion, Pa. \$2,900. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owners, Sisters of Mercy, Merion, Pa. Stone, 1 story, 12x30 feet, slag roof. Contract awarded to John P. McShain, 631 North Seventeenth street.

Residence and Stable (alt. and add.), Radnor, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Charles A. Munn, Radnor, Pa. Stone and frame, 2½ stories, hot water heating, tile work, hardwood floors (electric work reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

NEW JERSEY

Construction News

Parochial School (alt.), Gloucester N. J. Architect, Thomas Stephen Masonic Temple, Camden, N. J. Owner, St. Mary's R. C. Church, Gloucester, N. J. Consists of general interior alterations, wire glass. Plans in progress.

Pavilions (2), Morris Plains, N. J. \$9,000. Architect, George S. Drew Court House, Trenton, N. J. Owner, State of New Jersey Hospital. Brick, frame and glass, 1 story, 40x60 feet each, slag roof, electric lighting. Plans in progress. Owners will take bids in 2 weeks.

Lavatory Building, Gloucester, N. J. \$3,500. Architect, Thomas Stephen Masonic Temple, Camden, N. J. Owner, St. Mary's R. C. Church, Gloucester, N. J. Brick and concrete, 1 story, 30x23 feet, tin roof, steam heating, concrete floors, enameled bricks. Plans in progress.

Church (alt. and add.), Trenton, N. J. \$10,000. Architect, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Christ Episcopal Church, care of Rev. Robert W. Trenbath, 296 Hamilton avenue, Trenton, N. J. Stone, 1 story, 20x60 feet, slate roof, electric lighting, tile work. Plans in progress.

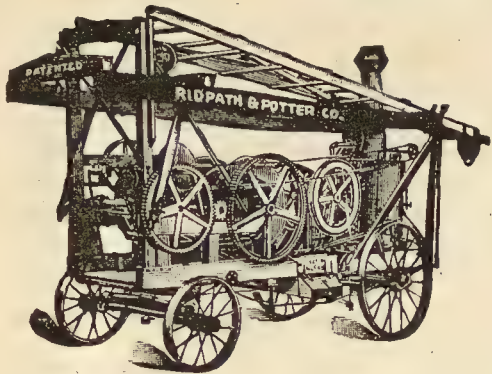
Residence, Trenton, N. J. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, name withheld. Frame and stucco, 2½ stories, 30x56 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work, metal lath. Plans in progress.

Residence, Trenton, N. J. \$4,000. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, name withheld. Frame and stucco, 2½ stories, 31x31 feet, shingle roof, hot air heating, electric lighting, hardwood floors, tile work, metal lath. Plans in progress.

Bungalow, Burlington, N. J. \$4,000. Architect, H. A. Brown, Beverly, N. J. Owner, Russel Clark, Burlington, N. J. Frame, 2 stories, 22x39 feet, shingle roof, hot air heating, gas and electric lighting. Plans in progress. Architect will take bids in ten days.

School, Pleasantville, N. J. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Pleasantville, N. J. Brick, 2 stories, 30x73 feet, slag roof, electric lighting, water-proofing (heating reserved). Revised plans in progress.

High School, Pleasantville, N. J. Architect, S. Hudson Vaughn, Bartlett Building, Atlantic City, N. J. Owner, Board of Education,



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Pleasantville, N. J. Brick, 2 stories, 54x75 feet, slag roof, electric lighting, metal lath, damp-proofing (heating reserved). Revised plans in progress.

School, Roebling, N. J. \$75,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Florence Township Board of Education, care of Thos. F. Watson, Secretary, Roebling, Pa. Brick and concrete, 2 stories, 78x165 feet, slag roof, steam and warm air heating, electric lighting, metal doors and frames, safety treads, damp-proofing, metal lath. New Plans in progress.

Twin Residence, Trenton, N. J. \$9,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, name withheld. Brick, 2½ stories, 36x42 feet each, slate roof, gas and electric lighting, hardwood floors, tile work (heating reserved). Architects taking bids due July 9th.

Stores and Apartments, Princeton, N. J. \$25,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Cornelius Dinnen, Princeton N. J. Brick, stone trimmings, 3 stories, 53x52 feet, slag roof, steam heating, gas and electric lighting, tile work. Architect taking bids due July 9th. The following are figuring: H. S. Stilwell, Mathews Construction Co., E. M. Updyke, F. H. Johnson, J. P. Gill, Dempsy & Hardy, Valentine & Frohling, B. R. Warren, all of Princeton, N. J.

Church, Perth Amboy, N. J. \$100,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owner, St. Stephen's R. C. Church, Perth Amboy, N. J., care of Rev. Joseph Urban. Stone, 1 story, 70x151 feet, slate and slag roof, metal lath (heating and lighting reserved). Revised plans in progress. Bids in one week.

School (add.), Merchantville, N. J. Architect, H. A. McComb, 214 South Seventh st., Phila. Owner, Board of Education, Merchantville, N. J. Brick, stone trimmings, 2 stories, 48x182 feet, slag roof, fan system of heating, electric lighting, safety treads, metal lath, concrete floor. Owners have received bids.

Church, Perth Amboy, N. J. \$100,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owner, St. Stephen's R. C. Church, Rev. Joseph Urban, Perth Amboy, N. J. Stone, 1 story, 70x151 feet, slate and slag roof, metal lath (heating and lighting reserved). Architects taking revised bids due July 11th. John McShain, 631 North Seventeenth street; W. J. McShain, 417 South Thirteenth; M. L. Conneen & Co., 2015 Cuthbert street, Phila.; J. R. Crouse, Perth Amboy, N. J., and Sobray Construction Co., 115 Avenue "A," New York City, are figuring.

Hotel (add.), Atlantic City, N. J., \$500,000. Architects (associated), Vivian B. Smith and Earle M. Henderer, Sheen Building, Atlantic City, N. J. Owners, Rudolf Hotel Company, Atlantic City, N. J. Brick, steel and terra cotta, fireproof, 11 stories, 100x175 feet, 200 bath rooms, 225 sleeping rooms, tile roof, steam heating, electric lighting, concrete floors, 4 elevators. Plans in progress.

Church, Audubon, N. J., \$20,000. Architect, John H. Mowere, 3110 Columbia avenue, Philadelphia. Owners, Holy Trinity Evangelical Lutheran Church, Rev. William H. Harding, Audubon, N. J. Stone, 1 story, 60x39 feet, Star Bangor or Washington vein slate, gas and electric lighting, metal lath (heating reserved). Owners taking bids. Alex. Chambley, 243 South Tenth street, Philadelphia, is figuring.

NEW JERSEY

Contracts Awarded

Church and School, Sayreville, N. J. \$20,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, St. Stanislaus R. C. Church, Rev. John J. Powowski, Sayreville, N. J. Brick, 1 and 2½ stories, 51x100 feet, slate roof, steam heating, electric lighting. Contract awarded to Joseph Cheek, Jr., Sayreville, N. J.

Residences (7), Trenton, N. J. \$14,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, Herman Salb, 550 Lamberton street, Trenton, N. J. Brick, 3 stories, 14x48 feet each, slate and slag roofs, hot air heating, gas and electric lighting. Contract awarded to Frank Giedlinski & Son, 19 Wayne street, Trenton, N. J.

Residences (alt. and add), (2), Trenton, N. J. Architect, W. B. Thines, 326 West State street, Trenton, N. J. Owner, Samuel Rosen, 510 South Warren street, Trenton, N. J. Brick, 2½ stories, 27x50 feet, slate and tin roofs, hot air heating, gas lighting. Contract awarded to Morris Laden, Trenton, N. J.

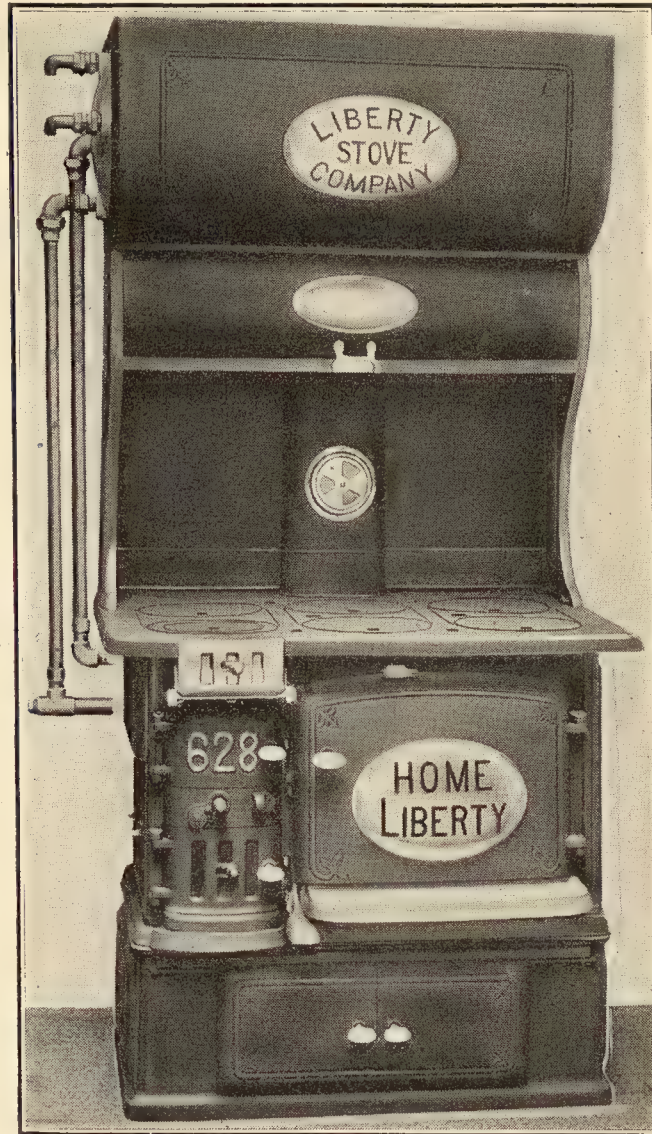
Theatre, Apartments and Store, Burlington, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, J. Ellis, Beverly, N. J. Brick,

2 stories, 75x200 feet, slag roof, hot water heating, gas and electric lighting, tile work, composition floors, metal lathes. Contract awarded to Robert M. Gould, Columbus, N. J.

Residence, Burlington, N. J. \$10,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Hollow tile and stucco, 2½ stories, 30x45 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath. Contract awarded to Bramall & Dubell, Burlington, N. J.

High School (add.), Burlington, N. J. Architect, H. A. Brown, Beverly, N. J. Owner, Board of Education, Burlington, N. J. Brick, stone trimmings, 2 stories, slag roof, gas and electric lighting. Contract awarded to J. E. Kolster, Beverly, N. J.

School Building, Vineland, N. J. \$60,000. Architect, Paul A. Davis, 1713 Sansom street, Phila. Owner, Board of Education, care of Edgar R. Jones, Decker Block, Vineland, N. J. Brick, terra cotta and limestone, 2 stories, slag and tin roof, structural slate, concrete and hollow tile fireproofing, electric lighting, blower system of heating. Contract awarded to Henry L. Brown, 1714 Sansom street, Phila.



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Miscellaneous Construction News

Milk Station, Newark, Del. Architect, private plans. Owner, A. Dolfinger, Sixteenth and Tasker streets, Phila. Brick, 1 story, 30x65 feet, asbestos roof. Owners taking bids. William R. Dougherty, 1610 Sansom street, Phila., is the only bidder.

Store and Office Building, Charleston, W. Va. Architects, Weber, Werner & Adkins, Cincinnati, Ohio. Owner, Mrs. A. Boiarsky, Charleston, W. Va. Reinforced concrete, brick and terra cotta, 3 stories, 100x67 feet, composition roof, electric lighting, oak floors,

hollow tile fireproofing, vault lights (heating and elevator reserved). Architects taking bids, due July 9th. Metzger & Fisher, Denckla Building, Philadelphia, are figuring.

Station, Connersville, Ind. Architect, M. A. Long, Baltimore, Md. Owners, B. & O. R. R. Co., Baltimore, Md. Brick, 1 story, 30x65 feet, slate roof, steam heating, electric lighting. Owners taking bids, due July 13th. Roydhouse-Arey Co., Fidelity Building, Philadelphia, figuring.

and Wilde street. E. L. Cuthbertson (C), 334 Roxborough avenue. Cost, \$5,000. Shop, Krams avenue and Wilde street.

G. R. Schenck (O), A and Tioga streets. H. Hobert (C), 2620 Cumberland street. Cost, \$4,000. Shop, A and Tioga streets.

F. Buchert (O), 3192 Aramingo street. H. H. Hobert, 2620 Cumberland st. Cost, \$1,500. Store and dwelling, 3192 Aramingo street.

Dill & Collins Co. (O), Richmond and Tioga streets. William Steele & Sons (C), 1600 Arch street. Cost, \$2,000. Shed. Richmond and Tioga streets.

Oxford Presbyterian Church (O), Broad and Oxford streets. F. Wintz (C), 1618 North Twenty-seventh street. Cost, \$2,100. Church, Broad and Oxford streets.

J. Watkins (O), 2159 Ridge avenue. McCullough Construction Co. (C), 507 Bailey Building. Cost, \$4,100. Synagogue, 1709 North Twenty-second street.

Thomas Dolan Estate (O), Torresdale, Pa. N. K. Freas (C), Andalusia, Pa. Cost, \$1,100. Tool house, Torresdale, Pa.

Baptist Orphanage (O), Fifty-eighth street and Thomas avenue. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$2,500. Boiler house, Fifty-eighth street and Thomas avenue.

Frank Rossi (O), 2101 North Warnock st. Columbia Construction Co. (C), 1710 North Bouvier street. Cost, \$1,000. Shop, 2101 North Warnock street.

A. N. McBerney (O), Porter and Swanson streets. John Botwright (C), 5909 Pine st. Cost, \$3,000. Storage, Porter and Swanson streets.

Dr. G. B. Wood (O), 129 South Eighteenth street. Leroy K. Smith (C), 4007 Chester avenue. Cost, \$3,000. Dwelling, 129 South Eighteenth street.

W. F. Snyder (O), Germantown. Stokes Bros. (C), 6723 Musgrave street. Cost, \$3,510. Garage. Cost, \$2,000. Dwelling, Germantown.

CIVIL SERVICE EXAMINATION.

Landscape architectural draftsman, salary \$900; examination July 8th.

Structural engineer and draftsman, salary \$1,600 to \$1,800; examination July 8th and 9th.

Those wishing further information concerning these examinations may obtain the same from the U. S. Civil Service Commission, Washington, D. C., applying for application Form 1312.

STATE BUILDING CODES.

In an article in the "A. I. A. Journal" William Walter Johnson, supervising expert, Pennsylvania State Building Code Commission, advocates State building codes. While local conditions may differ somewhat in different localities, he maintains that this difference and especially that the difference in the requirements between the smaller and the larger places is not so great as is generally supposed, when the same type of building and the same occupancy is concerned. At the same time, the other advantages of State-wide laws and uniform requirements are definite and far-reaching. The smaller communities would be better served if they had the laws which are necessary in larger cities.

"A State building code, to be practical and effectual, should be a code of minimum requirements, granting local communities the power to add to, but not to detract from the State law."

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

J. M. Kennedy, Jr. (O), 1000 Chestnut st. K. Wilson (C), 3108 Boudinot street. Cost, \$5,000. Five dwellings, brick, 2 stories, 15x25 feet, Venango and Wittie streets.

D. Crawford, Jr. (O), 701 North Sixty-third street. Cost, \$16,800. Four dwellings, brick, 2 stories, 18x50 feet, Wyoming and Marvine streets. Cost, \$25,600. Eight dwellings. Cost, \$25,600. Eight dwellings. Cost, \$25,600. Eight dwellings.

Charles O'Donnell (O), Fountain and Cambria streets. J. J. Hurley (C), 503 East Monastery avenue. Cost, \$3,000. Dwelling, brick, 3 stories, 16x40 feet. Cost, \$4,800. Dwelling, Manayunk, Phila.

Dougherty & Armstrong (O), 1822 Point Breeze avenue. Cost, \$3,600. Two stores and dwellings, brick, 2 stories, 16x40 feet, Wishart and A streets. Cost, \$1,800. One dwelling. Cost, \$35,000. Twenty-five dwellings. Cost, \$39,200. Twenty-eight dwellings. Cost, \$1,400. One dwelling. Cost, \$1,400. One dwelling. Cost, \$39,200. Twenty-eight dwellings.

Famous Players' Exchange (O), Philadelphia. P. J. Hurley (C), 1233 Cherry street. Cost, \$4,500. Store, brick, 2 stories, 15x79 feet, 1321 Vine street.

H. F. Hartwig (O), 7403 J street. Cost, \$3,200. Two dwellings, brick, 2 stories, 14x39 feet, 7417-19 Lawndale street.

C. C. McCandless (O), 4815 Old York road. Cost, \$58,200. Twenty-one dwellings, brick, 2 stories, 16x43 feet, Tenth and Loudon sts. Cost, \$3,200. One dwelling.

Archbishop E. F. Prendegast (O), Eight-

teenth and Race streets. A. Zufnicki (C), 1632 Hunting Park avenue. Cost, \$60,000. Church, stone, 1 story, 75x103 feet, Germantown and Hunting Park avenues.

F. Pezzillo (O), 3352 Almond street. Cost, \$3,600. Two dwellings, brick, 2 stories, 14x26 feet, Almond and Ontario streets.

Soloman Bros. (O), 824 Snyder avenue. Cost, \$46,000. Twenty-three dwellings, brick, 2 stories, 14x25 feet, Third and Porter sts. Cost, \$2,600. Store and dwelling.

John Brown & Sons (O), Twenty-third and Turner streets. A. R. Raff (C), 1635 Thompson street. Cost, \$5,000. Shop, brick, 3 stories, 17x36 feet.

David McKibbin (O), 2900 Frankford avenue. Cost, \$2,000. Store and dwelling, brick, 2 stories, 16x43 feet, Lippincott and Mascher streets. Cost, \$18,200. Thirteen dwellings.

Boulevard Realty Co. (O), 721 Walnut st. Cost, \$45,000. Two apartment houses, brick, 3 stories, 107x104 feet, Nineteenth street and Erie avenue. Cost, \$45,000. Two apartment houses.

F. Friedrichsdorf (O), 5718 Cottage street. Cost, \$4,400. Two dwellings, brick, 2 stories, 16x26 feet, Cottage and Van Kirk streets. Cost, \$2,300. One dwelling.

S. F. Swoboda (O), 5341 Market street. Ayer & Carmean (C), 5131 Market street. Cost, \$3,500. Store and dwelling, brick, 3 stories, 20x40 feet, Sixtieth street and Larchwood avenue. Cost, \$8,700. Three dwellings. Cost, \$2,900. One dwelling. Cost, \$2,900. One dwelling.

Alterations and Additions

Broad Street Bank (O), Broad and Diamond streets. Herman Voigt (C), 1251 North Twenty-eighth street. Cost, \$3,500. Bank, Broad and Diamond streets.

Hoffman Estate (O), 1126 Washington avenue. R. Leirau (C), 111 South Seventh st. Cost, \$2,000. Manufacturing building, 1126 Washington avenue.

Katie Rubin (O), 512 South Fifth street. Yelman & Chafkin (C), 706 Hoffman street. Cost, \$1,600. Store and dwelling, 2117 South Seventh street.

Moore & Kelly Co. (O), Twenty-fifth and Morris streets. Specialty Engineering Co. (C), Emerald and Cornwallis streets. Cost,

\$2,750. Coal pocket. Cost, \$1,450. Coal pocket.

Mrs. A. D. Bache (O), 1711 Rittenhouse st. William R. Dougherty (C), 1610 Sansom st. Cost, \$7,300. Dwelling, 1711 Rittenhouse st.

S. Jaffe & Son (O), 548 North Second st. Cost, \$3,000. Store, 546 North Second street.

Baptist Orphanage (O), Fifty-eighth street and Thomas avenue. Nachold & Riddell (C), Stephen Girard Building. Cost, \$9,000. Boiler house, Fifty-eighth street and Thomas avenue.

Pennsylvania Cold Storage Co. (O), Twenty-ninth and Market streets. Cost, \$2,800. Twenty-ninth and Market streets.

William Schofield Co. (O), Krams avenue

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**As is well known, the Cement Shows which have been held in Chicago and other cities during the last few years have been under the management of the Cement Products Exhibition Company, and at the annual meeting of the stockholders held in June the following directors were unanimously elected: Edward M. Hagar, President of the Universal Portland Cement Company; Norman D. Fraser, President of the Chicago Portland Cement Company; D. McCool, President of the Newaygo Portland Cement Company; A. Y. Gowen, Vice-President of the Lehigh Portland Cement Company; George S. Bartlett, Vice-President of the Edison Portland Cement Company; B. F. Affleck, general sales agent for the Universal Portland Cement Company; W. E. Cobean, sales manager for the Wolverine Portland Cement Company; J. U. C. McDaniel, sales manager for the Chicago Portland Cement Company; J. P. Beck, manager Publicity Bureau of the Universal Portland Cement Company. The report of the directors showed the company to be in good condition, and as the policy is to pay no dividends, such surpluses as occasionally remain are devoted to promotion of future exhibitions.

**A new style of six-story apartment house has recently been introduced in Rue Vavin, Paris, France. Each story retrogrades on the one below, leaving a wide balcony or terrace in front of its windows. The house has a distinct resemblance to a huge flight of stairs, and it is argued that the hygienic advantages of such a method of construction quite compensates for the waste of space.

**The general sales offices of the Trussed Concrete Steel Company were on June 1 removed from Detroit, Mich., to Youngstown, Ohio, where the company's plant is located. We understand the prime object of the change is to secure greater efficiency through closer co-operation of all departments.

**Only one Cement Show will be held in 1915, and that will be in the Coliseum at Chicago, Ill., during the week beginning February 10. This month of the year has been selected as it has been found that contractors, cement users and engineers are better able to attend the exhibition at that time than during any other period, and it is also the season when the maximum amount of purchasing and specification of equipment and supplies are given attention.

**Robert L. Ingersoll, architect and builder, 123 Washington street, South Norwalk, Conn., desires to receive from manufacturers copies of their latest catalogues and samples of building materials.

**C. W. Boynton, for the past ten years inspecting engineer of the Universal Port-

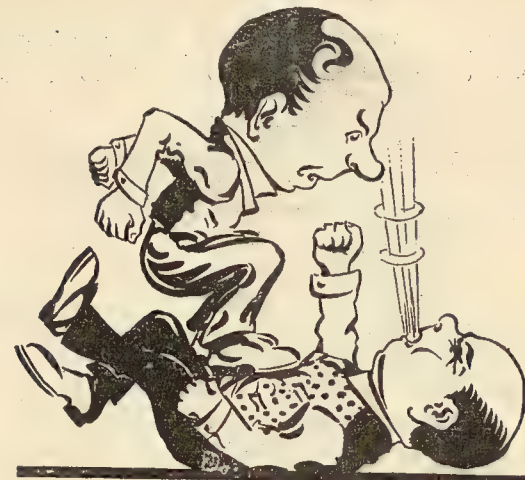
land Cement Company, 208 South La Salle street, Chicago, Ill., has resigned his position to take charge of construction work in connection with the development of its properties in California by the Sonoma Magnesite Company. It is announced that W. M. Kinney, assistant inspecting engineer, who has been in charge of the Inspection Bureau of the Universal Portland Cement Company in Pittsburgh during the past six years, will take up the work which Mr. Boynton leaves.

**The largest relative cost for any portion of the work in connection with a skeleton steel frame fireproof office building is the masonry, which, according to a table in R. P. Bolton's book entitled "Building for Profit," figures 33.7 per cent. of the total cost of a building. The steel framing costs but 7.6 per cent. of the whole, not as much in fact as the plumbing fixtures, which cost 12.6 per cent. The plumbing costs but 1.5 per cent. The other relative costs are given as follows: Foundation, 5.3 per cent.; fireproof floors, 2 per cent.; ornamental iron, 6.3 per cent.; heating, 3.3 per cent.; electric wiring, 2 per cent.; partitions, 1.2 per cent.; joinery, 3.4 per cent.; roofing (tile), 2 per cent.; plastering, 3.8 per cent.; marble, 9.6 per cent.; elevator, 3.1 per cent.; hardware, 0.5 per cent.; glass, 1.3 per cent.; paint, 0.8 per cent. The cost of supervision, plans, fees and carrying charges during construction should be spread over the other items, as each derives a proportionate benefit therefrom.

**Announcement is made that Dudley A. Johnson succeeds the late Sam Mayer as manager of the Chicago branch of the Joseph Dixon Crucible Company, Jersey City, N. J. Mr. Johnson was for a number of years assistant to Mr. Mayer at Chicago and he brings to his new position the knowledge acquired by the experience of many years' acquaintance with the Dixon line and the Dixon customers. In the June issue of "Graphite" it is stated that Mr. Johnson went with the Joseph Dixon Crucible Company in 1898, bringing with him experience in the lead pencil and stationery business, which he had acquired with P. F. Pettibone & Co., and the Holyoke Envelope Company. During the first few years with the Dixon Company he had charge of the lead pencil department and the school work; later he assumed charge of the crucible and black lead department of the company in the Chicago territory and is therefore fully equipped to ably represent the Dixon Company as its branch manager in that section.

**The National Association of Building Owners and Managers will convene at Duluth July 14 to 17.

(Continued on page 439.)



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Irving Dillon.....Editor

PHILADELPHIA, PA., JULY 8, 1914.

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Editorial Comment

With this issue "The Guide" presents to its readers the semi-annual, statistical number, which has for many years been a feature of its activities. The statistical table printed on another page of this number is an accurately compiled and carefully verified transcript of the official records for the half year ending June 31. There can be no safer index to general conditions in the trade, so far as Philadelphia is concerned than this report, showing as it does not only the total outlay to date for all classes of building during 1914, but sub-dividing this data so as to show upon what kind and size of buildings these outlays were made and how they were distributed geographically or with reference to ward lines. Everything considered the showing cannot be considered as other than encouraging. In spite of a generally predicted falling off in the grand total of expenditures for dwelling houses, due to the production of this class of building during the past several years in excess of the popular demand the figures on this class of building show a remarkable gain over the same period last year. Taking into consideration the weak and vacillating policies, foreign and economic, of the administration in power at Washington, the growing timidity of big business in the face of nagging and demagogic attack and the resultant depressing effect of these conditions upon the money market and upon capital generally Philadelphia has every reason to be proud of the totals here shown.

"The Guide" takes occasion to renew the prediction made by it some months ago to the effect that with the settling back of conditions to something like normality the year, as a whole, may be expected to approximate the usual figures. The senseless nagging of big business has been carried to an extreme despite President Wilson's facetious reference to the national depression as a psychological manifestation. That evidences seem to be multiplying to favor the view that the President is taking a more serious view of the situation is distinctly encouraging. With anything resembling the normal confidence in financial centers building in Philadelphia, as elsewhere, is in for a big boom during the remaining six months of 1914.

* * *

Mr. Edward Rochie Hardy, who writes a page of comment on Fire Prevention for "Architecture and Building," has an interesting little talk in the current number on the subject of certain "common errors" made by the public in its deductions as to insurance allowances:

"One of the outgrowths of the condition referred to in the last issue; to the effect that fire prevention was expected to cover the cost of all types of improvements or protective features," writes Mr. Hardy, is that the idea became firmly fixed in the public mind that, as the companies made reductions for the

better type of constructions and for fire protection devices, the advantage was all for their benefit and the reduced rate of insurance ought to reflect the full cost in the improvement.

In many cases this can be done. This is quite true if we begin with the humble fire pail and run all the way up to the sprinkler equipment. The difference in the insurance rate will usually pay for the installation of the device. The time required, of course, will depend upon the cost of the equipment and the insurance carried. It is fairly safe to say that in the United States and Canada the insured considers that he should receive his money back for the equipment in reduced insurance rate even in the most extreme cases in five years. In many of the smaller devices he expects it in the first year, and we are informed three years is about the limit outside of sprinkler equipments.

In the European countries and Great Britain, owing to the low rate of insurance, the returns for various devices are spread over a larger number of years. As a matter of fact, in many cases the return on a sprinkler equipment only represents 5 per cent. of the investment, and 20 years are required to work the matter out through the rate insurance.

In a recent address before a fire prevention body, an architect called attention to the fact, with some feeling perhaps on the subject, that there was too little difference in the rate of insurance between the best of fireproof buildings and the inferior types of construction so long as both were sprinklered. It seemed to him that this was an error and one which should be corrected by the underwriters. The fallacy underlying the thought is due to a misconception of the basis on which insurance is founded. It deals wholly with the theory of probabilities, and if a sprinkler device in a poor type of risk catches the fire in its initial stage it is just as good a risk as though the risk was a better construction where the sprinkler equipment would do no more than catch the fire in its incipency.

The sprinkler levels most hazards, overcoming many difficulties, and even operates to overcome to a great extent differences in types of construction. Indeed, it has been stated by some underwriters that their experience with sprinklered risks in different types of construction does not show, in results, much difference.

This idea is reflected in other respects, thus in a recent building where there was a sharp contest between the dealers in wooden trim and metal trim the idea was advanced that the reduction for metal trim ought to be sufficient to make it profitable to install that type rather than the wooden. It was pointed out to the parties that the difference in the cost of the two types represented nearly \$300,000 for the property in question. At 4 per cent. this would represent \$12,000 per

year, and as the total insurance on the building with the wooden trim would not exceed for one year the sum mentioned, it is evident that it would be impossible to make for this one item an allowance in the rate of insurance sufficient to cover the carrying cost. It ought to be clearly understood that the advantage in the better type of construction covers many other things in addition to the reduced cost of insurance. First: the better wearing qualities of the building. Second: the better rent. Third: the more permanent form of investment. Fourth: a less up-keep cost. These and many other things all enter into the question.

There may come a time when in order to encourage the building of the highest type of fireproof construction especially in the cities, that some inducement will be offered to the owner, but that inducement should take the form of a lower rate of tax on the better structure than on the inferior type.

Perhaps this idea is a bit chimerical, but why is it unreasonable to assume that the city might well shade the rate of taxation on an absolutely standard structure as against one of an inferior type or one of a totally different type of construction. In this there would be encouragement to erect such structures where others might be erected, but please remember that the difference in the cost of the higher and the lower type cannot be reflected in the cost of insurance—the total amount involved is not sufficient—even in the insurance was carried free of cost."

* * *

A deftly fashioned tribute to the eminence of Italy as the home of the Renaissance is presented in an article on "The Styles of the Renaissance" in "Arts and Decoration" for July. This article, from the pen of Mr. George Leland Hunter contains this eloquent foreword by way of homage to the land of sunny skies:

"The home of the Renaissance was Italy. In Italy, it began a century earlier than in France, the Netherlands, Germany, England and Spain. In the latter countries it is of the Sixteenth Century only; in Italy it is of both the Fifteenth and Sixteenth. It was easy for Italians to discard the Gothic style that they had never completely assimilated. It was easy and natural for them to revive the style of their ancestors, examples of whose architecture they saw all around them, and acquired by excavations like that of the Golden House of Nero in Rome, which at the beginning of the Sixteenth Century taught so much to Raphael and his pupils, chief among them Giulio Romano.

The furniture of the Renaissance is strongly architectural. In its ornament, capitals and columns, and other architectural forms often appear.

The first great name in Renaissance art is Brunelleschi, who after devoting fifteen years to a close study of the ancient monuments of the city of Rome, proposed to the town council of Florence to complete their cathedral by roofing it over with a dome like that of the Roman Pantheon. The commission was given him in 1420, and his success brought him other

opportunities to execute notable buildings in classic style.

Other great architectural names of the Italian Renaissance are Alberti and Bramante of the Fifteenth Century, Palladio and Vignola of the sixteenth. Alberti achieved fame not only by his masterpiece the church of Saint 'Andrea at Mantua, but also by the posthumous publication of the first printed book on architecture, accompanied by illustrations and based on Vitruvius.

It was the one of a long series of such books, the best known of which are those by Palladio and Vignola, which for centuries served to guide youthful students toward the shrine of architectural and decorative knowledge. Alberti's book was in Latin, the latter two in Italian.

The invention of printing in 1453 had a profound and far-reaching effect upon Renaissance art, both decorative and pictorial. It enabled lessons that had previously been taught and stories that had previously been told in sculpture, wood carvings, painting, fresco, stained glass, and tapestries, to be spread broadcast inexpensively in printed form. In other words, it popularized knowledge about art at the expense of knowledge of art and tended to substitute book knowledge for real knowledge. But the first effect was brilliant, for it brought book knowledge to those already equipped with knowledge practical and concrete, so that of all the periods in decorative art the richest is that fifty years before and after 1500.

The discovery, about 1542, of a manuscript copy of Vitruvius' *De re aedificatoria* was epoch-making. For actual first-hand knowledge like that of Brunelleschi based on the ancient buildings themselves, it tended to substitute the imperfectly understood and imperfectly translated theories of a Roman architect of the time of Augustus, who died before any of the really important buildings of Roman imperial architecture were constructed, and whose knowledge of the architecture of Greece was second-hand. However, the harm done in Italy that abounded in ancient monuments, was perhaps less than in the countries obliged to rely on books mainly or exclusively. In France, the great architectural books were those of Serlio and Delorme.

Already the Renaissance was in full bloom in Italy, before the countries to the west began to feel its inspiration. Already in the Fifteenth Century, which was decoratively so rich with Gothic art in Flanders, France and England, the furniture and furnishings of Italian churches and residences were pure Renaissance."

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

TRADE NEWS AND GOSSIP.

(Continued from page 437.)

**The National Electrical Contractors' Association of the United States will meet in annual convention at Detroit, Mich., July 15-18. Headquarters at the Cadillac Hotel. Secretary, G. H. Duffield, 40 Martin street, Utica, N. Y.

**At the sixth annual meeting and election of the Builders' Exchange of Atlanta, Ga., President J. T. Rose in his annual address pointed out the good work which the Exchange had accomplished in the past and recommended a number of improvements which it was believed will make the Atlanta Builders' Exchange one of the strongest organizations of its kind in the country. The statement submitted by Secretary J. D. Wood showed the organization to be in good financial condition. The officers chosen for the ensuing year were: President, J. T. Rose; Vice-President, B. Mifflin Hood; Treasurer, R. M. Walker; Secretary, J. D. Wood. The weekly "Bulletin," which the Exchange has been publishing for some time past, is now issued as a part of the "Building Review," the weekly organ of the Contractors and Dealers' Exchange of New Orleans, La. A copy of this publication is mailed direct to each member of the Atlanta Exchange at the expense of that organization.

**The Executive Board of the International Association of Master House Painters and Decorators of the United States and Canada, will hold its mid-summer meeting at the Hotel Brunswick, Asbury Park, N. J., Thursday, July 30. The principal business of the meeting is to arrange the details and programme for the 1915 convention of the association.

**Henry O. Raff, M. Am. Soc. C. E., has resigned his position as principal designing engineer with the Concrete-Steel Engineering Company and opened an office as consulting engineer in the Park Row Building, New York, where he will make a specialty of designing and supervising the construction of reinforced concrete work. Mr. Raff has been

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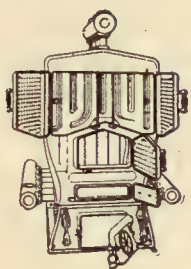
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engaged in this branch of engineering for more than eleven years. Edwin Thatcher, M. Am. Soc. C. E., is associate engineer with Mr. Raff.

**W. J. Aschenbach, architect, has moved his offices from 137 Springfield avenue to 238 Washington street, Room 702, Newark, N. J.

**M. J. Nadel, architect, has recently received his license to practice architecture and has opened offices in the Union Building, Newark, N. J.

**The annual meeting and election of officers of the Builders' Exchange of Baltimore City was a most interesting affair. The following officials were elected for the ensuing year: President, Gen. William D. Gill; First Vice-President, Herbert J. West; Second Vice-President, A. J. Dietrich; Third Vice-President, C. Morgan Marshall; Treasurer, S. Frank Bennett; Secretary, I. H. Scates. The following members were chosen to serve on the Board of Directors for the term of three years: William H. Morrow, of Morrow Brothers; John Trainor, plumber and steam fitter; Arthur F. West, a contractor, and E. C. Wilson, of Rollman & Wilson.

HISTORY OF THE AMERICAN ACADEMY IN ROME.

An extremely interesting account of the evolution and founding of the American Academy at Rome is given by William Rutherford Mead, last of the triumvirate, McKim, Mead & White, and now president of the academy, in his appreciation of Charles Follen McKim, recently published.

This enterprise was really one of the many far-reaching results of the World's Fair at Chicago in 1893.

Mr. McKim's dream was to establish a great national post-graduate school where students in the three arts could live and work together as had the architects, painters and sculptors during the planning and execution of the World's Fair. He, and the men working with him to establish the Academy at Rome, were thoroughly familiar with the history, traditions and work of the French Academy which had been founded in the reign of Louis XIV.

In 1894 Mr. McKim founded the Fellowship in Architecture at Columbia University, which bears his name, giving for its endowment twenty thousand dollars. This was a traveling fellowship requiring study abroad. The Rotch Traveling Scholarship, a Boston foundation, and the Stewardson Memorial Scholarship of the University of Pennsylvania, also sent students abroad. In order to provide headquarters for the winners of these scholarships the American School of Architecture at Rome was established the same year, taking quarters in the Palazzo Torlonia, with Mr. Austin Lord as director, and the men who were the first winners of the three scholarships, Messrs. Pope, Magonigle and Ash, as students. This was the beginning of what is now the American Academy in Rome.

In 1895 the Peabody Institute of Baltimore established the Rinehart Scholarship in sculpture, and in 1896 the Metropolitan Mu-

seum of New York, the Lazarus Scholarship for the study of Mural painting. In 1898 the School of Architecture was reincorporated under the laws of the State of New York, the title being changed to The American Academy in Rome.

In 1898, having outgrown its old quarters, the academy secured, by lease, the Casino of the villa Ludovici, better known as the Villa dell' Aurora, where it remained for nine years.

In 1901 the Secretary of State authorized the American Ambassador to Italy to become ex-officio trustee of the academy and to use his influence with the Italian government to gain the usual privileges and exemptions. In 1905 the academy was made a national institution, which immediately gave it a standing in Europe not otherwise possible.

The American School of Classical Studies in Rome had been established by the Archaeological Institute of America at about the same time as the academy, and recently these two institutions have been consolidated to mutual advantage. The academy purchased the Villa Mirafiore on the Via Nomentana as a permanent home, and were well satisfied. Later an American lady, Mrs. Clara Hyland, long a resident in Rome, bequeathed to the academy her villa on Mount Janiculum, one of the most splendid sites in Rome. Part of the villa is of very great antiquity. The gardens are of considerable extent and of great beauty.

The villa is now being rebuilt on a scale commensurate with the dignity and purpose of the academy. When completed the academy will possess libraries, studios, an exhibition hall, residences for directors and students. The grounds are of sufficient size to accommodate all these buildings with dignity.

What makes Mrs. Hyland's gift of such priceless value to the academy and to America is its incomparable site, much the finest in the city.

Mr. McKim was instrumental in starting an endowment fund with gifts from many sources—his own private fortune, amounting to a quarter of a million dollars, was bequeathed to the academy, subject to a life interest.

Three fellowships are awarded annually on competitions; the awards for each being \$1,000 a year for three years, which time must be spent in study under the direction of the academy. These competitions are open to the American youth who can show fitness for the opportunities offered.

Persons desiring to compete for a fellowship must fill in a form of application, which will be furnished by the secretary of the academy upon request, and file the same with the secretary not later than March 1st, together with such letters of reference and other documents of evidence as they may desire to submit. The competitions are held at the same time every year; entries from January 1st to March 1st. Information as to the terms and conditions of the competitions may be obtained from the secretary of the academy, C. Grant La Farge, 101 Park avenue, New York City.

CINDER CONCRETE FLOORS.**An Excellent Material in Need of Rational Code Regulation.**

For such purposes as floors for buildings, cinders are used in concrete to a considerable extent, on account of their light weight. Cinder concrete weighs only from two-thirds to three-fourths as much as broken stone or gravel concrete. The strength, however, is correspondingly less, and whether for a given strength a floor may be made lighter by the use of cinders will depend upon the conditions of use and the character of the reinforcement.

Cinders for concrete construction are understood to mean either hard or soft coal ashes coming from boiler plants. Coal ashes from a stove or a small house are generally too finely burned to be of use in this kind of concrete. Cinders from either hard or soft coal, and having sharp particles greatly in excess of the smooth ashes, make a concrete of considerable strength and good fire-resisting qualities.

Cinder concrete floor construction will receive considerable attention by the framers of the new building code, and therefore the paper presented recently to the American Society of Civil Engineers by Guy B. Waite on this subject should be of interest to the building trade. In this paper Mr. Waite calls special attention to the arbitrary manner of using cinder concrete for floor construction and the insistence of continuing this arbitrary use by New York City, as indicated by the latest building codes.

Lack of Uniform Methods.

Although cinder concrete has acquired a large place in the field of concrete construction, the lack of uniform methods and the absence of specified unit stresses has brought it into disrepute in many circles, and unless some definite means are found to overcome these objections the revised code may prohibit their use entirely.

Mr. Waite calls attention to the fact that floor slabs of stone and gravel concrete, reinforced with steel, of the same general form as cinder concrete, have been systematized by engineers so that they are being used on a rational basis, but cinder concrete has been allowed to straggle along, without much attention from engineers in general, and is being used in a varied manner. The cities of Philadelphia, Boston and Chicago require cinder concrete for floor slabs to be designed, in thickness and in quantity of reinforcement, with certain values of unit stresses as a limit. But in New York City unit stresses are not considered in the use of such concrete.

Mr. Waite thinks the excuse that cinder concrete is so extremely variable as not to permit of the assignment of unit stresses, is not well founded. The fact that cinder concrete is being used extensively in engineering construction is sufficient reason for assigning for safety some unit stresses, in order to insure uniformity. The present manner of making arbitrary approvals has led to confusion. Various forms of reinforcement ob-

taining approvals in which the spans, thickness of concrete, quantities of reinforcement and floor loads vary beyond description. In New York City alone there have been 200 approvals for reinforced floor slabs of varying spans, thicknesses of concrete and quantities of reinforcement.

Mr. Waite gives the tabulated results of a large number of experiments performed on cinder concrete floor slabs, and explains fully how these experiments were performed and the conditions surrounding each experiment. He condemns most emphatically the practice of testing cinder concrete under the most favorable conditions, and then recommending the results of these tests to be used under the most unfavorable conditions.

It is estimated that more than 50 per cent. of the large fireproof constructions of New York City have reinforced cinder concrete floor slabs. This proportion would probably be increased if cinder concrete floor construction were removed from the realm of mystification and misrepresentation to the field of civil engineering.

BUILDERS WAGES IN 1913.

According to a statement issued May 9 by the Bureau of Labor Statistics at Washington, D. C., the average weekly wage in forty leading cities of the United States for more than sixty industries was higher on May 15, 1913, than on May 15, 1912, except that of the mill work carpenters. The following are some of the increases made in the period stated:

Bricklayers	1.7 per cent.
Carpenters	1.7 per cent.
Hod carriers	1.3 per cent.
Painters	4.2 per cent.
Plasterers	1 per cent.
Plumbers and gas fitters.....	3.1 per cent.
Structural iron workers.....	2.6 per cent.
Stone cutters	2.2 per cent.

The highest scale per hour paid in May, 1913, in the above trades were as follows:

Bricklayers, 87½ cents in Dallas and San Francisco.

Carpenters, 65 cents in Chicago.

Hod carriers, 50 cents in Portland, Salt Lake City and San Francisco.

Painters, 65 cents in Chicago.

Plasterers, 87½ cents in San Francisco.

Plumbers and gas fitters, 81¼ cents in Seattle.

Structural iron workers, 75 cents in San Francisco.

Stone cutters, 70 cents in Portland.

Iron moulders, 50 cents in San Francisco.

The bureau reports that thirty-four trades showed a reduction of hours between May, 1912, and May, 1913; twenty-eight reported no change and one reported an increase.

The man who is "going to do some advertising next year—maybe" gets his advertising in the end in the shape of an obituary.

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MORE OR LESS PERSONAL.

J. Osborn Hunt announces the removal of his architectural offices to Rooms 11 and 12, Interstate Telephone Building, Trenton, N. J. Mr. Hunt was formerly located at 206 East Hanover street, Trenton.

* * *

Architect Oliver Randolph Parry, 1723 Chestnut street, Philadelphia, has opened a New York office at No. 35 West Thirty-ninth street.

* * *

M. L. Conneen, engineer and contractor for reinforced concrete construction and fireproofing, has opened offices in the Lafayette Building, Philadelphia. Mr. Conneen represented for some time the General Fireproofing Company and has been identified with the fireproofing, engineering and building construction lines since 1899.

"Noah filled the ark," says an exchange, "without advertising."

Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us, for 40 days and 40 nights.

PHILADELPHIA AS A BUILDING CENTER

A Statistical Review of Structural Activity During the First Half of Year of 1914

Number of new buildings erected from January 1st to June 30, 1914

	Jan.	Feb.	Mar.	Apr.	May	June	Total Operations	Estimated Cost
One-story Dwellings	0	0	0	0	0	1	1	\$2,500
Two-story Dwellings	275	223	992	826	770	808	3,894	7,768,275
Three-story Dwellings	7	16	76	72	47	43	261	1,361,390
Four-story Dwellings	0	0	0	0	0	1	1	6,000
Office Buildings	1	3	3	1	3	2	13	5,012,675
Halls	1	0	1	0	1	0	3	45,300
Warehouses	0	0	3	1	3	3	10	146,400
Factories	4	3	4	7	10	7	35	924,800
Engine and Boiler Houses.....	0	0	0	1	1	1	3	29,150
Foundries and Shops	7	5	4	9	10	5	40	137,460
Stores	17	5	3	10	8	5	48	164,245
Schools	1	0	0	1	2	0	4	285,925
Stables	10	4	3	11	15	7	50	44,525
Churches	0	0	1	4	2	3	10	233,175
Frame Dwellings	1	1	2	7	1	0	12	26,450
Tenement Houses	0	7	12	0	0	7	26	564,000
Charitable Institutions	0	0	1	0	3	0	4	77,150
Parish Buildings	0	0	0	0	0	1	1	10,000
Dormitories	0	0	0	0	1	0	1	80,000
Places of Amusement.....	5	3	5	4	1	2	20	422,600
Hospitals	0	0	1	0	0	0	1	60,000
Club Houses	0	0	0	0	0	2	2	155,000
Convents	0	0	0	0	2	0	2	73,200
Garages	18	13	26	50	32	42	181	198,780
Power Houses	0	0	0	0	1	2	3	97,000
Railroad Stations	0	0	0	0	0	1	1	17,500
Libraries	0	0	0	1	0	0	1	10,800
Laundries	0	0	0	0	0	1	1	15,000
Miscellaneous Buildings	11	9	15	25	15	11	86	101,780
Total New Buildings.....	358	292	1152	1030	928	955	4,715	18,071,080
Additions	87	60	138	202	179	188	854	1,766,160
Alterations and Repairs	216	187	303	333	326	322	1,687	1,129,965
Grand Total							7,256	20,967,205
Heaters							156	77,125
Fire Escapes							57	26,670
Signs							91	20,880
Fireproofing							6	106,260
Miscellaneous Unclassified Work.....							1,079	139,860
Total work of all kinds.....							8,645	\$21,338,000

TWO-STORY DWELLINGS—Including two-story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Totals	
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	25	4	0	0	0	17	155	39	0	22	0	0	5	0	0	0	275	
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	20	0	0	0	0	0	0	0	0	0	0	11	0	0	0	79	0	46	0	32	3	0	2	29	0	0	223	
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	19	0	13	48	0	0	0	0	48	0	0	0	1	87	2	0	0	28	188	38	20	188	62	7	134	108	0	0	992	
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	9	6	23	0	19	2	1	0	0	2	0	0	0	0	17	26	0	74	56	60	31	229	23	1	92	143	0	5	826
May	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	6	59	19	1	0	0	0	1	0	0	1	0	36	0	1	25	0	10	56	65	13	83	21	1	26	166	0	177	770	
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6	8	10	0	10	0	0	0	0	0	0	162	30	2	0	0	37	159	61	26	171	48	7	36	30	0	2	808	
Totals	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	10	1	1	47	74	85	49	29	2	1	1	48	2	1	0	224	132	22	51	0	245	614	309	90	725	157	16	295	476	0	184	3894	

THREE-STORY DWELLINGS—Three story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Totals	
Jan.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	2	1	0	0	0	0	0	7		
Feb.	0	1	0	0	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	16		
March	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2	0	0	0	0	0	0	0	0	0	0	7	4	0	0	7	3	0	3	28	2	0	1	0	0	0	76	
April	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	16	0	2	0	1	0	0	0	0	1	0	0	16	4	0	0	2	2	0	1	12	2	0	1	2	0	0	72
May	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	6	0	0	0	0	1	0	0	0	0	0	2	5	0	0	0	7	1	0	8	0	0	0	0	0	47		
June	0	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	1	0	0	0	0	0	0	1	1	0	0	4	0	0	2	2	0	0	4	0	11	0	0	0	43	
Totals	4	6	2	11	8	0	1	0	0	0	0	0	2	0	0	0	0	2	0	0	13	41	8	2	1	6	0	1	0	0	2	1	0	26	17	0	0	12	15	2	4	54	5	11	2	2	0	0	261	

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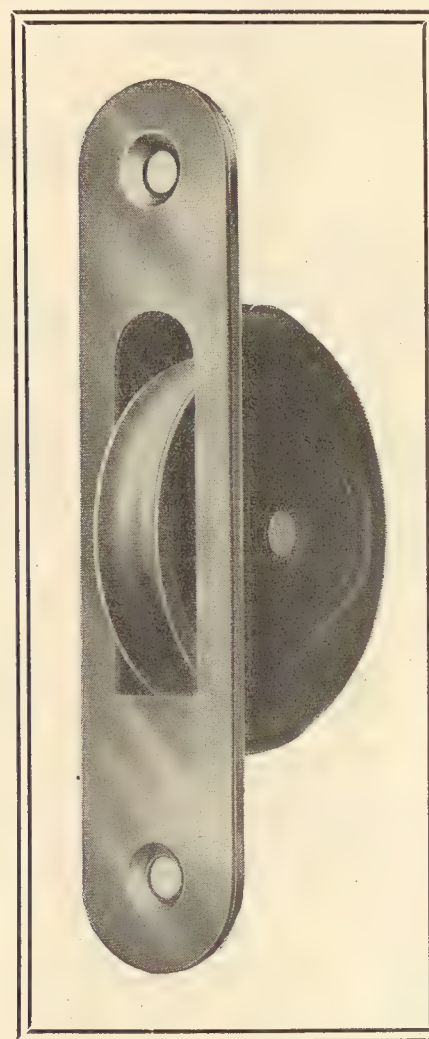
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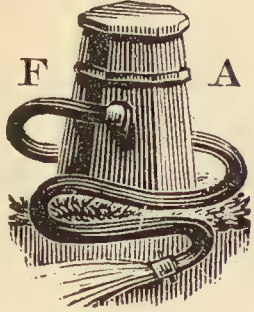
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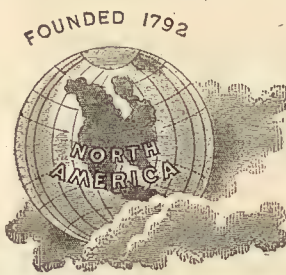
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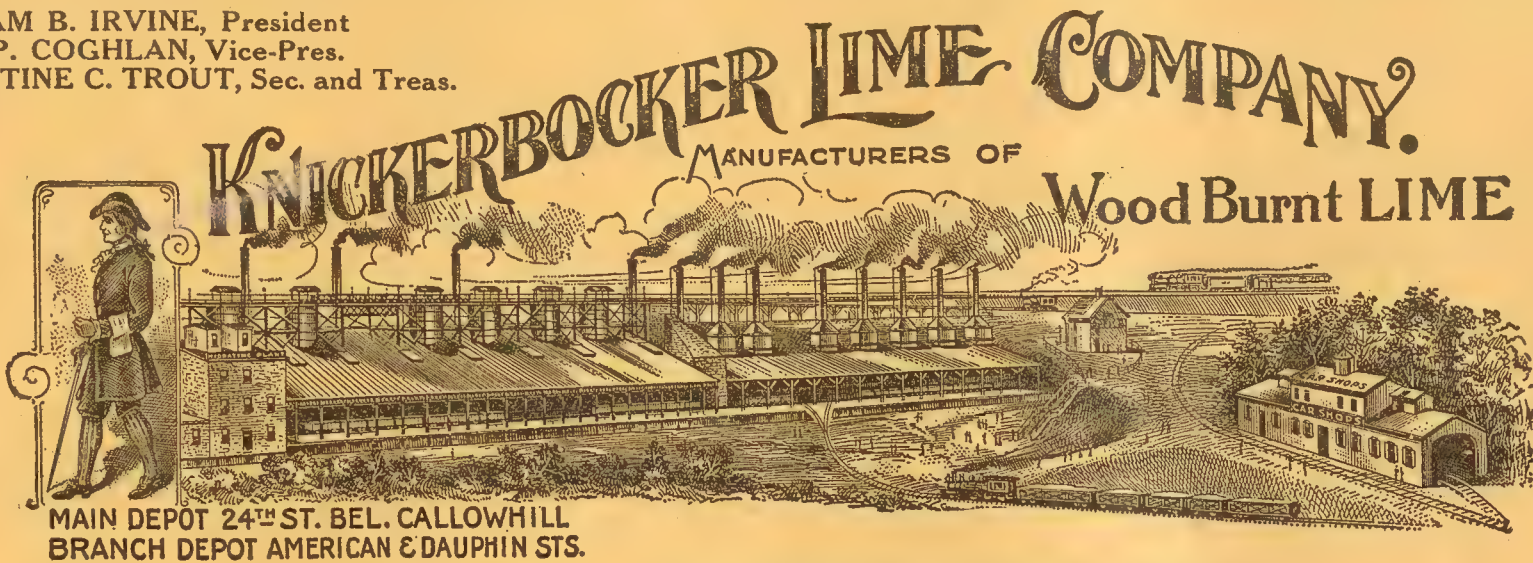
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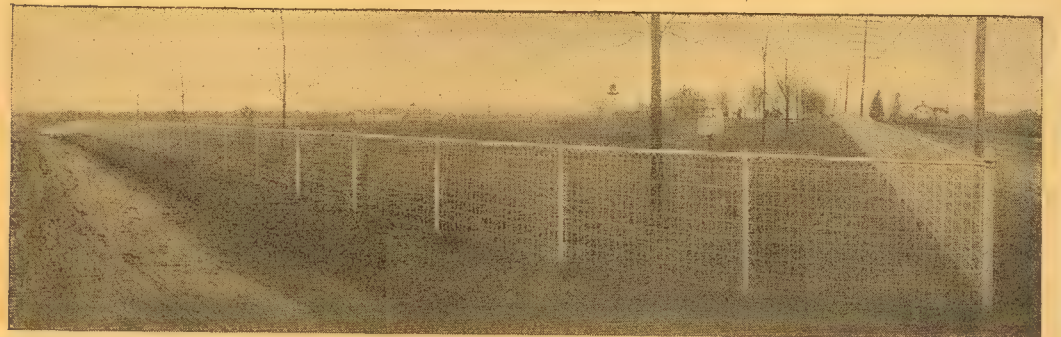
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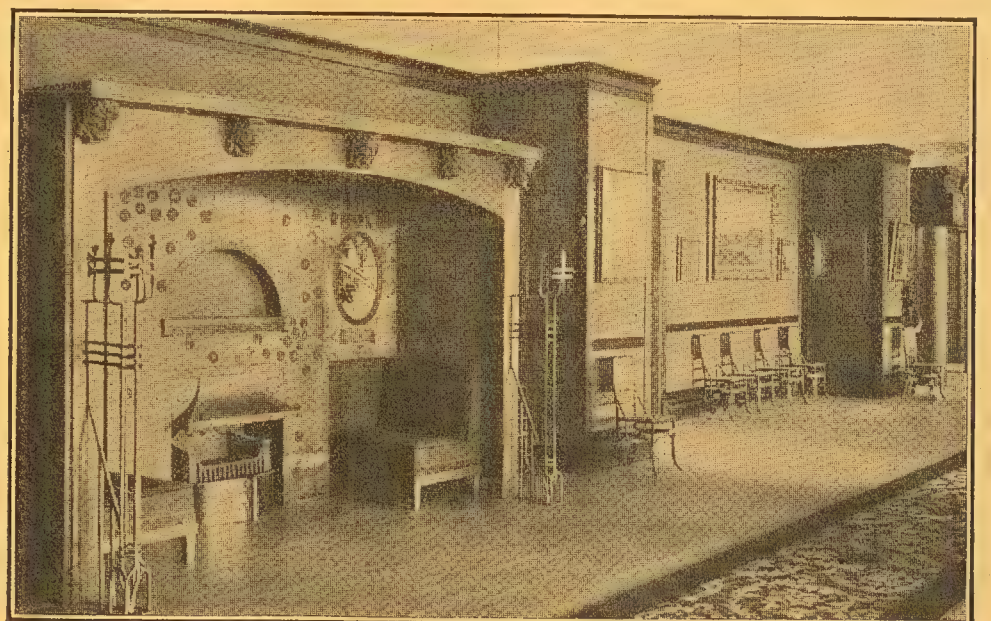
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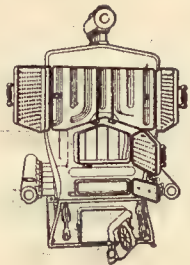
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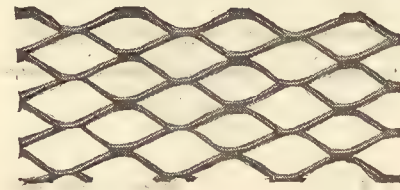
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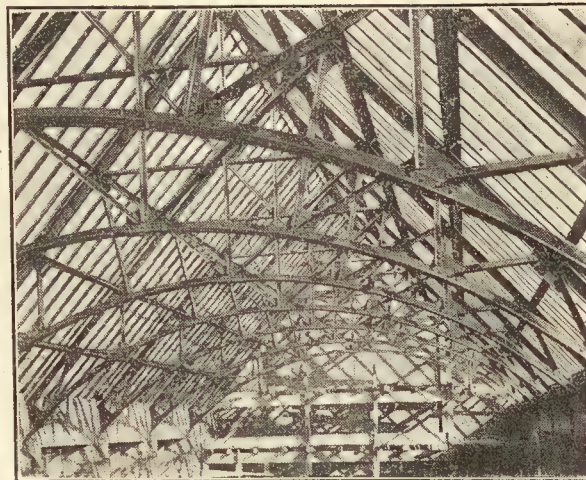
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Fraternity House, 3533-35 Locust st. Architect, Bissell, Sinkler & Tilden, Baily Building. Owners, Delta Tau Delta, care of John Costello, Commercial Trust Building. Brick, 3 stories and basement, 35x86 feet, slate and slag roof, vapor vacuum heating, electric lighting. Architect taking bids due July 22nd. The following are figuring: J. B. Flounders, 1329 Arch street; James H. Wells, Heed Building; George & Borst, 277 South Eleventh street; H. H. Burrell, 1202 Chancellor street; H. E. Baton, Twelfth and Sansom street; J. S. Cornell & Sons, Land Title Building.

Residence, Wissahickon avenue, near Carpenter street, Gtn. \$12,000. Architect, Chas. Barton Keen, Baily Building. Owner, G. Richard Nichols, on premises. Stone and plaster, 2½ stories, 28x65 feet, slate roof, heating, hot air heating and electric lighting reserved), hardwood floors. Architect taking bids due July 20th. The following are figuring: W. J. Gruhler, 219 High street; Pringle Borthwick, 8018 Germantown avenue; M. S. Hauser, Glenside, Pa.; M. S. Oberholtzer, 5524 Pulaski avenue.

Residence (alt. and add.), 111 East Cliveden street, Gtn. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, C. W. Potts, 127 Cliveden street, Gtn. Brick, 3 stories, slate roof, expanded metal lath, tile work (heating and electric work and parquet floors reserved). Architects have received bids.

Church and Parish House, Forty-second street and Woodland avenue. Architects, Duhrring, Okie & Zeigler, Bailey Building. Owners, Protestant Episcopal Colored Church, care of Architect. Brick, 1 story, 65x143 feet, slate roof, steam heating, electric lighting. Revised plans in progress.

Parochial School (alt. and add.), Haines and Morton streets, Gtn. Architect, Charles J. Cumiskey, 165 East Pomona street. Owner, Our Lady of the Holy Rosary, 334 East Haines street, Gtn. Brick, 2 stories, 34x49 feet, slag roof (heating and lighting reserved). Architect has received bids.

Store and Loft Building, 1309 Vine street. Architects, Sauer & Hahn, 1112 Chestnut st. Owner, H. S. Marks, care of Architect. Brick

and concrete, 2 stories, 20x80 feet, slag roof, steam heating, electric lighting, metal lath, metal sash and frames. Plans in progress. Bids in two weeks.

College (add.), York and Watts street. Architects, Pilcher & Tachau, 109 Lexington avenue, New York City. Owner, Gratz College, on premises. Stone and brick, 2 stories and basement, 44x50 feet, slag roof, steam heating, electric lighting, metal lath, damp-proofing. Owners taking bids due July 20th. Charles McCaul Co., 1713 Sansom street, and William R. Dougherty, 1610 Sansom street, are figuring.

Building (alt. and add.), 632-34 Race st. Architect, C. E. Rahn, 410 Walnut street. Owner, William Frizlen, on premises. Brick, 3 stories, slag roof, steam heating, electric lighting. Architect has received bids.

Hospital, Howard and Diamond streets. Architects, Watson & Huckel, 1211 Walnut street. Owner, Kensington Hospital for Women, 136 Diamond street. Brick, fireproof, 4 stories and basement, 50x70 feet, slag roof (heating and lighting separate bids), elevators, metal lath, metal sash and frames, water-proofing. Architect taking bids due July 16th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; P. Haibach Contracting Co., Twenty-sixth and Thompson streets; A. H. Williams & Sons, 419 Locust street; James Johnston, 1721 Ludlow street; H. H. Wehmeyer, 1004 West Lehigh avenue.

Church (alt. and add.), Fifth street, above Venaigo street. Architect, Adiel Martin Stern, 413 North Thirty-eighth street. Owner, St. Matthew's Reformed Church, care of Rev. W. O. Sylvius, on premises. Stone, 1 story, consists of general interior decorations. Architect has received bids.

Church (alt. and add.), Forty-sixth street and Chester avenue. Owner, Stearns & Castor, Stephen Girard Building. Owner, Chester Avenue Baptist Church, on premises. Stone, 1 story, slate roof, electric lighting. Architects have received bids.

Theatre, 2209-11 North Broad street. \$18,000. Architect M. H. Dickinson, 1524 Chestnut street. Owners, Kahn & Greenberg, Morris building. Brick, terra cotta, 1 story, 32x125

feet, slag roof, steam heating, electric lighting, metal lath. Builder, Harry Gill, Jr., 2515 Germantown avenue, taking sub-bids.

Residences (25), Philadelphia. Architects, Borzner & Wood, 721 Walnut street. Owner, H. K. Read, care of Architect. Brick and plaster, 2 stories, 16x50 feet, slag and tile roof, hot water heating, electric lighting. Plans in progress. Bids in two weeks.

Club House (alt. and add.), 251-243 South Camac street. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Coin D'or Club, care of Yarnall Abbott, Abbott Building. Brick, 3 stories, 29x26 feet, tile and slag roof, steam heating (electric lighting and heating reserved), metal lath, metal sash and frames. Revised plans in progress.

Factory Building, 707 Filbert street. Architects, Borzner & Wood, 721 Walnut street. Owner, Harry Burstein & Co., 709 Filbert st. Brick and concrete, 6 stories, 20x60 feet, slag roof, steam heating, electric lighting, elevator. Plans completed. Architect will take bids in a few days.

School, Cheltenham, Phila. \$25,000. Architect, Herbert C. Wise, Twelfth and Walnut streets. Owner, Board of Education, care of J. Holden, Fox Chase, Phila. Brick, 2 stories, 40x60 feet, slate roof (heating and lighting separate bids). Plans completed. Owners will advertise for bids as soon as plans are approved.

Church, Twenty-second and Moore streets. Architects, Milligan & Pierson, 520 Walnut street. Owner, Twenty-second Street M. E. Church, care of Rev. Joseph E. Gallagher, 1720 South Twenty-second street. Brick, stone trimmings, 2 stories, 42x125 feet, slate and slag roof (heating and electric work reserved). Owners taking revised bids due July 17th. Smith-Hardican Co., 1606 Cherry street, and Specht & Sperry, Heed Building, are figuring.

Stores and Residences (2), Sixth street, above Lombard street. Architects, Milligan & Pierson, 520 Walnut street. Owner, name withheld. Brick, 3 stories, slag roof, steam heating, gas lighting. Architects taking sub-bids.

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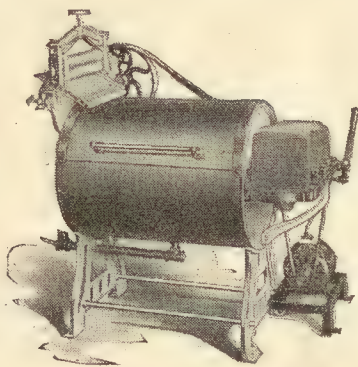
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Alterations for Apartments, 1737 Mount Vernon street. Architect, H. L. Reinhold, 1309 Walnut street. Owner, Edward Hutchinson, 122 South Thirteenth street. Brick, 3 stories, slag roof, electric lighting (heating separate bid). Architect taking bids, due July 20th. The following are figuring: M. Roy Sheen, 450 North Wilton street; John W. Kohl, 1723 Vine street; Smith-Hardican Company, 1606 Cherry street; K. E. Bonney, Parkway Building; John Morrow Construction Company, 208 South Thirteenth street; James H. Wells, Heed Building.

Hospital (alt. and add.), Seventeenth and Vine streets. Architect, H. L. Reinhold, 1309 Walnut street. Owner, Charity Hospital, care of Edward Hutchinson, 122 South Thirteenth street. Brick, 4 stories, slag roof, electric lighting (heating separate bid). Architect taking bids, due July 20th. The following are figuring: M. Roy Sheen, 450 North Wilton street; John W. Kohl, 1723 Vine street; Smith-Hardican Company, 1606 Cherry street; K. E. Bonney, Parkway Building; John Morrow Construction Company, 208 South Thirteenth street; James H. Wells, Heed Building.

Hospital (add.), Thirty-fourth and Spruce streets. Architects, Brockie & Hastings, 1713 Sansom street. Owners, University of Pennsylvania, on premises. Brick, stone and steel, fireproof, 3 stories and basement, 45x105 feet, slate roof (central plant for heating and electric lighting reserved), elevators, metal sash and frames. Architect taking revised bids, due July 17th. Irwin & Leighton, 126 North Twelfth street, are figuring (only bidder).

Residence (alt. and add.), 4431-33 Spruce

street. Architect, Stanley Yocum, 5517 Morris street, Germantown. Owners, Kuhn & Rump, on premises. Stone and concrete, 35x30 feet, slate roof, electric lighting, tile floors, consists of new porch. Architects taking revised bids, due July 15th. T. C. Trafford, 1613 Sansom street; F. E. Wallace, 1210 Sansom street; Smith-Hardican Company, 1606 Cherry street, are figuring.

Sunday School, Forty-first and Mantua avenue. Architects, Lachman & Murphy, Witherspoon Building. Owners, Calvary Evangelical Lutheran Church, care of Rev. J. M. Tweedale, 4110 Parkside avenue. Brick, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Architect taking bids, due July 20th. Thomas C. Trafford, 1613 Sansom street; Alex. Chambley, 243 South Tenth street; George F. Pawling Company, Broad and Vine streets; F. H. Keiser, Pottstown, Pa.; A. P. Fraim, 319 Market street; D. F. Hoover, 664 North Preston street, are figuring.

Apartment (alt. and add.), 1400 North Fifteenth street. Architect, George S. Idell, 34 South Sixteenth street. Owner's name withheld. Brick, 4 stories, 23x170 feet, slag roof, steam heating, electric lighting, oak floors, metal lath. Plans in progress. Bids in two weeks.

Store (alt. and add.), 3924 Market street. Architects, Henon & Boyle, 10 South Eighteenth street. Owner, M. J. Callahan, on premises. Brick, 1 story, slag roof, hot water heating, electric light. Plans in progress. Bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Clock Tower (alt. and add.), Thirty-sixth and Spruce streets, \$3,000. Architects, Bissell, Sinkler & Tilden, Baily Building. Owner, University of Pennsylvania, Thirty-fourth and Spruce streets. Stone, copper roof. Con-

tract awarded to George & Borst, 277 South Eleventh street.

Garage, Sixtieth and Ludlow streets, \$4,000. Architect, A. M. Michaelson, Fifty-ninth and Chestnut street. Owner, Robert Williams,

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6015 Chestnut street. Brick, 1 story, 56x92 feet, slag roof, electric lighting. Contract awarded to J. D. Fisher, 5718 Market street.

Residence, 3229 Montgomery avenue. \$6,000. Architects, Anderson & Haupt, Drexel Building. Owner, John D. McClintock, 4608 Spruce street. Brick, 3 stories, 16x35 feet, slag roof, steam heating, oak floors, electric lighting. Contract awarded to Louis Pearlstone, 1521 North Tenth street.

Garage, Seventeenth and Fontain streets. \$1,400. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Harry Weinreich, Twelfth and Arch streets. Brick, 1 story, 22x40 feet, slag roof, electric lighting. Contract awarded to Harry Reusswick, 137 North Tenth street.

Hall (alt. and add.), Seventh street and Fairmount avenue. \$4,000. Architect, B. J. Medoff, 524 Walnut street. Owner, Sazapove Bros., Eighth and Lombard streets. Brick, 3 stories, metal lath, metal sash and frames, consists of interior alteration and addition. Contract awarded to Samuel Schultz, 923 East Moyamensing avenue.

Store Building, 3233 Ridge avenue. Architect, E. D. Salter, Parkside and Wynnefield avenues. Owner, Victor I. Ridenour, on premises. Brick and plaster, 1 story, 16x45 feet, slate and slag roof, steam heating, electric lighting. Contract awarded to Le Roy K. Smith, Forty-first street and Chester avenue.

Store (alt. and add.), 206-208 Market street. \$2,000. Architect, private plans. Owners, Newcorn & Green, Eleventh and Market streets. Brick, 5 stories; consists of new front and interior alteration and addition. Contract awarded to Lam Building Co., 1001 Wood street.

Residence (alt. and add.), Sixth and Pine streets. Architects, Magaziner & Potter, 603 Chestnut street. Owner, Dr. N. Y. Belber, on premises. Brick and plaster, 3 stories, 20x27 feet, slag and tile roof (electric lighting reserved), hardwood floors. Contract awarded to Michael Stevens, Fox Chase, Philadelphia.

Residences (11), southeast corner Ninth and Reed streets. Architect, B. J. Medoff & Sons, 524 Walnut street. Owner, Samuel Wilensky, 816 Reed street. Brick, 18x60 feet, 3 stories, slag roof, hot air heat, electric light. contract awarded to Lestner & Shestack, 322 Dickinson street.

Convent, Allegheny avenue and Edgemont street. \$22,000. Architect, Louis H. Giele, 1123 Broadway, New York City. Owner, St. Adalbert's R. C. Church, care of Rev. M. Monkiewicz, 2645 East Allegheny avenue. Stone and brick, 4 stories, 41x62 feet, tin and slag roof, steam heating, electric lighting. Contract awarded to John McShain, 631 North Seventeenth street.

Store (alt. and add.), 1316 Walnut street. Architect, Albert F. Schenck, Real Estate Trust Building. Owner, James Kater, 1316 Walnut street. Brick, 4 stories, oak floors, electric lighting; consists of interior alteration and addition. Contract awarded to Myer Cossey, 240 Cherry street.

Stores and Residences (2), Eleventh street and Lindley avenue. \$19,000. Architect, Carl P. Berger, 1418 South Penn Square. Owners, Weil & Sattler, Real Estate Trust Building. Brick, 2 stories, 40x82 feet, slag roof, steam heating, electric lighting. Contract awarded to Klos & Reiff, 1132 Race street.

Store Building (alt. and add.), Eighteenth street and Columbia Avenue. Architect private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets. Consists of new front and interior alteration and addition. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Bank (alts.), Juniper and Chestnut streets, \$50,000. Architect, Edgar V. Seeler, Real Estate Trust Building. Owners, Pennsylvania Company for Insurance on Lives and Granting Annuities, 517 Chestnut street. Consists of general remodeling of interior and new front. Contract awarded to Doyle & Co., 1519 Sansom street.

heating, electric lighting, metal ceiling, slate blackboards. Owners taking bids.

School (Garfield), (alt. and add.), Duryea, Pa. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Board of Education, Duryea, Pa. Steam heating, concrete floors, metal ceilings, slate blackboards, new plumbing. Plans in progress. Owners ready for bids.

School (Roosevelt), (alt. and add.), Duryea,

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PENNSYLVANIA

Construction News

Hose House, Blakely Borough, Pa. \$6,000. Architect, Guy W. Osterhout, Connell Building, Scranton, Pa. Owner, Borough of Blakely, Pa. Brick, 2 stories, 26x54 feet, slate roof, steam heating, electric lighting, concrete floors. Plans in progress.

School, Jermyn, Pa. \$6,000. Architect, Guy W. Osterhout, Connell Building, Scranton, Pa. Owner, Board of Education, Jermyn, Pa. Frame, 2 stories, 34x44 feet, slate roof, steam

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Pa. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owners, Board of Education, Duryea, Pa. Steam heating, concrete floors, metal ceilings, slate blackboards, new plumbing. Owners ready for bids.

Municipal Building, Lebanon, Pa. \$25,000. Architects, Hauer & Moware, 3110 Columbia avenue, Phila. Owner, Lebanon Independent Borough, Daniel W. Hain, Clerk. Brick, brownstone trimmings, 2 stories, 42x70 feet, Washington vein slate roof, steam heating, gas and electric lighting, metal lath, water-proofing. Owners have received bids.

School Building, Warrior Run, Pa. \$30,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Board of Education, Warrior Run, Pa. Brick, 2 stories, 40x80 feet, slag roof, steam heating, electric lighting, metal ceilings. Owners ready for bids.

Street Paving, Larksville Borough, Pa. \$90,000. Owner, Larksville Borough, Thomas Anderson, Chairman Street Committee, Larksville, Pa. Brick and Granite curbs. Owners taking due July 22nd.

Hospital, Marcus Hook, Pa. Architect, W. A. Courtenay, Jr., Chester, Pa. Owners, State Quarantine Board, Bullitt Building, Philadelphia. Hollow tile and plaster, 1 story, 31x95 feet, asbestos shingle roof, hot water heating, electric lighting, composition floors. Owners have received bids.

Picture Theatre, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting, metal lath. Plans in progress.

School, Bryn Mawr, Pa., \$75,000. Architect, Ralph E. White, Pennsylvania Building. Owners, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick, granite and limestone trimmings, fire-proof, 2 stories, 162x78 feet, inlaid slate and slag roofs (heating and electric lighting, separate bids), expanded metal lath, concrete floors, hollow tile, slate blackboards, structural slate, proposal bond. Owners have received revised bids.

School (add.), Collegeville, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Board of Education, care of D. H. Bartman, Collegeville, Pa. Brick, stone trimmings, 2 stories, 40x80 feet, slate roof (steam heating and electric lighting separate bids). Owners received bids July 15th.

Green House, Radnor, Pa. Architect, C. A. Platt, 11 East Twenty-fourth street, New York City. Owner, H. L. Clark, 321 Chestnut street, Philadelphia. Hollow tile and plaster, 1 and 2 stories, 120x220 feet, tile roof (heating reserved), tile floors, metal lath. Builder, J. S. Cornell, Land Title Building, Philadelphia, is taking sub-bids.

High School (add.), Lansdowne, Pa., \$60,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of

Education, Lansdowne, Pa. Brick and stone, 3 stories. Details undecided. Plans in progress.

Residence, Wyomissing, Pa., \$4,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Mrs. W. C. Homan, 226 South Sixth street, Reading, Pa. Brick, 2½ stories, 32x34 feet, tin roof, hot water heating, gas and electric lighting, tile work. Owner has received bids.

Double Residence, Academy street, Scranton, Pa. \$6,000. Architect, Frank J. Miller, People's Bank, Scranton, Pa. Owner, Henry M. Weber, Academy street, Scranton, Pa. Frame, 2½ stories, 34x45 feet, slate roof, steam heating, electric lighting and gas lighting. Plans in progress.

Double Residence, Hyde Park avenue, Scranton, Pa. \$6,000. Architects, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, William J. Matthews, 610 North Main street, Scranton, Pa. Frame, 2½ stories, 34x45 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Store and Apartment, Taylor, Pa. \$10,000. Architect, L. Reisman, Dime Bank Building, Scranton, Pa. Owner, Jacob Steckel, Taylor, Pa. Brick, 2 stories, 40x80 feet, slag roof, steam heating, combination lighting. Plans in progress.

School (alt. and add.), Dalton, Pa. Architect, Albert Hartman, People's Bank Building, Scranton, Pa. Owner, Board of Education, 1 story, 24x32 feet and 6x14 feet, shingle roof, electric lighting, concrete floors, slate blackboards. Owners ready for bids in one week.

Bath House, Scranton, Pa. \$20,000. Architect, L. Reisman, Dime Bank Building, Scranton, Pa. Owner, Joseph Lefsetz, Scranton, Pa. Brick, 3 stories, 40x100 feet, slag roof, steam heating, metal lath, combination lighting, tile floors, water-proofing and damp-proofing. Architect has received bids.

School (alt. and add.), (School No. 3), Throop, Pa. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Board of Education, Throop, Pa. Frame, 2 stories, 64x78 feet, slate roof, hot air heating, electric lighting, steel ceilings, slate blackboards. Owners have received bids.

School, Plymouth Meeting, Pa. \$25,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, Plymouth Meeting, Pa. Brick, 2 stories, 50x90 feet, slag roof, metal ceilings, slate blackboards, electric lighting. Plans about completed. Owners will take bids in ten days.

School, Connaughton, Pa. \$15,000. Architects, Schermerhorn & Phillips, 430 Walnut st. Owner, Plymouth Township School Board, Plymouth Meeting, Pa. Brick, 1 story, slag roof, metal ceilings, slate blackboards. Plans about completed. Owners will take bids in ten days.

Residence, Elkins Park, Pa., \$10,000. Architects, Borzner & Wood, 721 Walnut street,

Philadelphia. Owner, P. C. Ruth, 218 South Forty-sixth street, Philadelphia. Hollow tile and plaster, 2½ stories, 24x55 feet, slate roof, hot water heating, electric lighting, oak floors. Plans in progress. Bids in two weeks.

Garage, Bryn Mawr, Pa. Architect, C. W. Churchman, 130 South Fifteenth street, Philadelphia. Owner, Mrs. Charles R. Snowden, Bryn Mawr, Pa. Stone, 1 story, 19x24 feet, shingle roof, electric lighting, hot water heating. Revised plans in progress.

Residence and Garage, Haverford, Pa., \$20,000. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, R. Howard Eisenbrey, Harrison Building, Philadelphia. Stone, 2½ stories, 63x34 feet, wing 40x22 feet. Garage, frame, 1½ stories, 22x22 feet, shingle roof, hardwood floors (hot air heating, plumbing and electric work reserved). Architects taking bids, due July 21st. The following are figuring: R. C. Ballinger & Co., 218 North Thirteenth street; F. B. Davis, 240 North Sixteenth street, of Philadelphia; Gray Brothers, Rosemont, Pa.; J. D. Lengel, Wayne, Pa.; M. N. Croll, St. Davids, Pa.

School (alt. and add.), Abington, Pa., \$20,000. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, slate blackboards (heating and lighting separate bids). Owners taking bids, due July 20th. Specht & Sperry, Heed Building, Philadelphia, are figuring.

School (alt. and add.), Willow Grove, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, slate blackboards (heating and lighting separate bids). Owners taking bids, due July 20th. Specht & Sperry, Heed Building, Philadelphia, are figuring.

School (alt. and add.), Weldon, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, slate blackboards (heating and lighting separate bids). Owners taking bids, due July 20th. Specht & Sperry, Heed Building, Philadelphia, are figuring.

Church and Sunday School, Ephrata, Pa. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owners, Bethany Reformed Church, Ephrata, Pa. Brick, 1 story, 75x105 feet, slate roof, hot air heating, electric lighting. Plans about completed. Architects will take bids in a few days.

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PENNSYLVANIA

Contracts Awarded

School, Pringle Borough, Pa., \$30,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Board of Education, Pringle Borough, Pa. Frame, 2 stories, 54x96 feet, slate roof, steam heating, electric lighting, metal ceilings. Contract awarded to Williams & Kelly, Westmor, Pa.

School (alt. and add.), Dorranceton, Pa., \$13,000. Architects, Pettebone & Lewis, Second National Bank Building, Wilkes-Barre, Pa. Owners, Board of Education, Dorranceton, Pa. Brick, 2½ stories, inlaid slate roof, hot air heating, gas and electric lighting. Contract awarded to J. S. Monks, Kingston, Pa.

School, Swoyersville, Pa., \$25,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Board of Education, Swoyersville, Pa. Brick, 2 stories, 40x96 feet, slate roof, steam heating, electric lighting. Contract awarded to J. J. Reilly, Wilkes-Barre, Pa.

School (add.), Swoyersville, Pa., \$15,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Board of Education, Swoyersville, Pa. Brick, 2 stories, 44x76 feet, slate roof, steam heating, electric lighting. Contract awarded to Z. Litts & Son, Forty Fort, Pa.

High School, Forest City, Pa., \$29,000. Architect, Percival J. Morris, Burr Building, Scranton, Pa. Owners, Board of Education, Forest City, Pa. Brick, stone and steel, 2½ stories, 103x107 feet, slate and slag roof, steam heating, electric lighting, metal lath, composition floors. Contract awarded to Holt Lumber Company, Carbondale, Pa.

Barn, Pleasant Mount, Pa., \$10,000. Architect, Percival J. Morris, Burr Building, Scranton, Pa. Owners, State of Pennsylvania, Department of Fish Hatchery, Harrisburg. Frame and steel and stucco, 2½ stories, 34x38 and 17x19 feet, slate and tin roof, concrete floors, metal lath. Contract awarded to Forest City Construction Company, Forest City, Pa.

Street Paving, Edwardsville, Pa., \$50,000. Owners, Borough of Edwardsville, Pa. Bessemer paving bricks and concrete curb. Contract awarded to Banks & Co., Wilkes-Barre, Pa.

Residence (alt. and add.), Wynnewood, Pa., \$2,000. Architects, Mellor & Meigs, 205 South Juiper street, Philadelphia. Owner, Henry S. Drinker, Jr., Wynnewood, Pa. Frame and plaster, 2½ stories, 18x26 feet, shingle roof, hot water heating. Contract awarded to J. J. Murphy, 1139 South Wilton street, Philadelphia.

Residences (2), Haverford, Pa., \$14,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, Morris L. Stovell, Haverford, Pa. Plaster, 2½ stories, shingle roofs, hot air heating, oak floors, gas and electric lighting. Contract awarded to Graham-Campion Co., Heed Building, Philadelphia.

Y. W. C. A., Chester, Pa., \$50,000. Archi-

tect, Benj. Rush Stevens, 1737 Filbert street, Philadelphia. Owners, Y. W. C. A., care of Mrs. A. R. Conwell, Upland, Pa. Brick, limestone and terra cotta, 3½ stories, 53x118 feet, slag and asbestos roof, composition floors, reinforced concrete floors, waterproofing and dampproofing, metal lath, safety treads, slate blackboards, metal doors, metal lockers (heating and electric work reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Dairy Building, near Newtown Square, Pa., \$12,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Dr. Thomas G. Ashton, Wynnewood, Pa. Hollow tile and stucco, 2 stories, 41x47 feet, shingle roof, expanded metal lath, structural slate (heating and electric work reserved). Contract awarded to J. Myers & Sons Co., Witherspoon Building, Philadelphia.

Club House, West Chester, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, New Century Club, West Chester, Pa. Hollow tile and stucco, 2½ stories, 50x150 feet, slate roof, hot water heating (electric lighting reserved), hardwood floors. Contract awarded to J. M. Burns, West Chester, Pa.

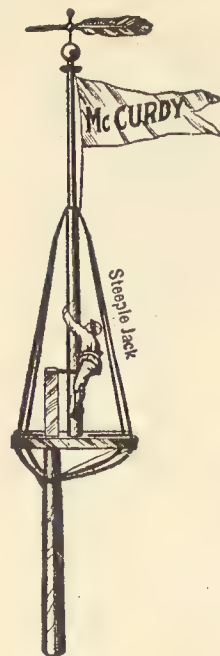
Odd Fellows' Hall, Chester, Pa., \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Odd Fellows, Upland Lodge, 253, Chester, Pa. Stone and terra cotta, 3 stories, 50x110 feet, slag roof, steam heating, gas and electric lighting, tile work. Contract awarded to V. Mereadante, 224 West Second street, Chester, Pa.

Post Office and Apartment House, Bryn Mawr, Pa., \$20,000. Architect, Lindley Johnson, Harrison Building, Philadelphia. Owner, Philip Harrison, Bryn Mawr, Pa. Brick, 3 stories, 33x83 feet, slag roof, hot water heating, electric lighting. Contract awarded to Joseph J. Graham, Bryn Mawr, Pa.

Residences (2), Rydal, Pa., \$25,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, G. Henry Stetson, Land Title Building, Philadelphia. Stone and plaster, 2½ stories, 52x23 feet, wing 18x13 feet, shingle roof, oak floors, electric lighting, hot water heating. Contract awarded to J. B. Flounders, 1329 Arch street, Philadelphia.

Residence, Webster avenue, Scranton, Pa., \$30,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owner, A. N. Cramer, Scranton, Pa. Brick, 2½ stories, 42x65 feet, tile roof, steam heating, combination lighting, tile and hardwood floors, metal lath, waterproofing and damp-proofing. Contract awarded to S. Sykes & Sons, 1235 Penn ave., Scranton, Pa.

Bungalow, Dalton, Pa. Architect, Albert Hartman, People's Bank Building, Scranton, Pa. Owner, J. Brown, Dalton, Pa. Frame, 1½ stories, 42x35 feet, shingle roof, hot air heating, electric lighting, tile and hardwood floors. Contract awarded to Nay Aug Lumber



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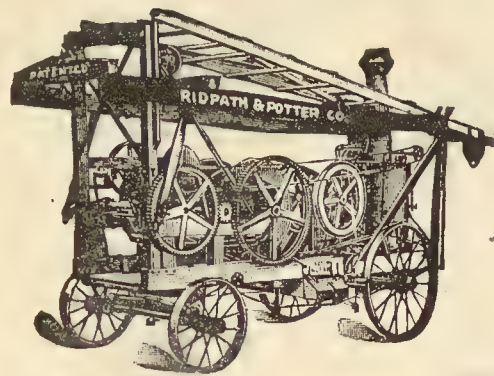
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Residence, Academy street, Scranton, Pa. Architect, J. Frank Miller, People's Bank Building, Scranton, Pa. Owner, J. W. Home, Scranton, Pa. Frame, 2½ stories, 30x38 feet, slate roof, steam heating, gas and electric lighting, hardwood and tile floors, art glass. Contract awarded to J. W. Francis, Ninth avenue, Scranton, Pa.

Controller's Building, Wyoming avenue, Scranton, Pa. \$40,000. Architect, private plans. Owners, International Correspondence School, Scranton, Pa. Brick and stone, 3 stories, 64x84 feet, slate roof, gas and electric lighting, tile floors. Contract awarded to M. J. Ruddy, 421 Lackawanna avenue, Scranton, Pa.

Bank and Office Building, Carbondale, Pa. \$50,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owners, Miners & Merchants' Savings Bank, Carbondale, Pa. Limestone, 2 stories, 61x92 feet, Barrett roofing, metal lath, water-proofing and damp-proofing (heating, lighting, tile and hardwood floors reserved). Contract awarded to Peter Stipp, 327 Washington avenue, Scranton, Pa.

School (alt. and add.), McKinley, Pa. \$8,500. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 1 story, 75x29 feet, slag and slate roof, slate blackboards. Con-

tract awarded to Specht & Sperry, Heed Building, Philadelphia.

Girls' Cottage, Oakbourne, Pa., \$30,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owners, Pennsylvania Epileptic Hospital and Colony Farm, Oakbourne, Pa. Brick and plaster, 2½ stories, 86x42 feet and 37x37 feet, slate roof (steam heating and electric work reserved). Contract awarded to Joseph M. Burns, West Chester, Pa.

Residence (alts.), Rydal, Pa., \$9,000. Architects, Zantzing, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Robert Sewell, Rydal, Pa. Consists of new porch and interior alterations, hardwood floors. Contract awarded to Stokes Brothers, 6723 Musgrave street, Germantown, Philadelphia.

Residence, Jenkintown, Pa. Architects, Druckenmille & Williams, Land Title Building, Philadelphia. Owner, Dr. A. C. Heritage, Jenkintown, Pa. Stone, 2½ stories, 27x69 feet, slate roof, hot water heating, electric lighting. Contract awarded to W. J. Stevens, Wyncote, Pa.

Church, Linwood, Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, R. C. Church of the Resurrection, care of Rev. A. L. Ganster, Linwood, Pa. Stone, 1 story, 47x110 feet, slag and slate roof (heat and lighting reserved). Contract awarded to F. J. Moore, 2521 West Third street, Chester, Pa.

NEW JERSEY Construction News

Apartment House, Atlantic City, N. J. \$175,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, John Stafford, 1112 Chestnut street, Phila. Stone, concrete and steel, fireproof, 6 stories, 167x94 feet, slag roof, hot water heating, gas and electric lighting, hardwood floors, tile work, elevator, metal lath. Revised plans in progress.

Apartment Houses (alt.), Pacific avenue, Atlantic City, \$7,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owners, name withheld. Brick, 3 stories, 26x100 feet, slag roof, hot water heating, gas and electric lighting, metal lath, water-proofing. Plans in progress.

Residence and Garage, Atlantic City, N. J. \$10,000. Architects, Shull & Berry, Humphrys Building, Atlantic City, N. J. Owner, P. E. Lane, 11 South Iowa avenue, Atlantic City, N. J. Brick and concrete, 1 story, 60x32 feet and 14x18 feet, slag and slate roof, hot water heating, gas and electric lighting, tile work, metal lath. Plans in progress. Owners will sublet all contracts.

Apartment houses (2), Atlantic City, N. J. \$30,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, I. Aaron, Atlantic City, N. J. Brick and concrete, 3 stories, 25x75 feet each, slag roofs, hot water heating, gas and electric lighting, tile work, metal lath. Plans in pro-

gress. Architect will take bids in one week.

Apartment house, Atlantic City, N. J. \$25,000. Architect, Seward G. Dobbins, City Sq. Theatre Building, Atlantic City, N. J. Owner, I. Aaron, Atlantic City, N. J. Brick, 4 stories, 50x70 feet, slag roof, vapor vacuum heating, gas and electric lighting, tile work. Architect taking bids due July 17th. The following are figuring: E. Ellsworth Smith, 2809 Fairmont avenue; H. G. Scull, Sheen Building, Atlantic City, and Charles S. Corson, Linwood, N. J.

Apartment House (alt. and add.), 519 Boardwalk, Atlantic City, N. J. \$10,000. Architect, Seward G. Dobbins, City Square Theatre Building. Owner, name withheld. Hollow tile, 3 stories, 65x75 feet, slag roof, hot water heating, gas and electric lighting, tile work. Architect taking bids. E. Ellsworth Smith, 2809 Fairmont avenue; H. G. Schull, Sheen Building, Atlantic City, N. J., and Charles S. Corson, Linwood, N. J., are figuring.

Shipping Building, Camden, N. J. Architects, Ballinger & Perrott, 1211 Arch street, Phila. Owner, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 4 stories, 80x150 feet, slag roof, steam heating, electric lighting, composition floors, metal lath, water-proofing, metal frames and sash. Architects taking bids, due July 28th. The following are figuring: Cramp & Co., Denckla Building; Turner Concrete Steel Company,

1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; Haibach Contracting Company, Twenty-sixth and Thompson streets, all of Philadelphia, and Fred T. Ley Company, 30 East Forty-second street, New York.

School Building, Pennsgrove, N. J. \$30,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, School Board, Pennsgrove, N. J. Brick, stone trimmings, 2 stories, slag roof, electric lighting. Plans in progress.

Signal Tower, Belle Mead, N. J. Architect, William Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets, Philadelphia. Brick, 2 stories, 15x31 feet, asbestos shingle roof, hot air heating (lighting reserved). Owners taking bids, due July 22nd. The following are figuring: Irwin & Leighton, 126 North Twelfth street; F. L. Hoover & Sons, 1023 Cherry street; F. W. Van Loon, Denckla Building; H. E. Baton, Twelfth and Sansom streets; Charles Gilpin, Harrison Building; Brown-King Const. Co., Harrison Building; W. W. Lindsay, Harrison Building; A. L. Carhart, Hale Building, all of Philadelphia.

Apartments and Stores, Trenton, N. J., \$40,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner's name withheld. Hollow tile and stucco, 4 stories, 100x100 feet, slag and tile roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and damp-proofing. Plans in progress.

Residence, Trenton, N. J., \$5,500. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner's name withheld. Brick, 2½ stories, 25x50 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Store and Residence (alt and add.), Trenton, N. J. Architect, W. B. Thines, 326 West State street, Trenton, N. J. Owner, Alexander C. Yard, 519 East State street. Brick, 3 stories, 51x71 feet, tin roof, gas and electric lighting. Owner taking bids.

Restaurant (alts.), 148 East State street, Trenton, N. J., \$3,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, Charles Hildebrecht, 19 West State street, Trenton, N. J. Brick, 3 stories, 25x25 feet, tin roof, electric lighting, hardwood floors, tile work. Architect taking bids, due July 15th. The following are figuring: I. Harper Clayton, American Mechanics' Building; E. D. LaRue, 53 South Hermitage street; Charles R. Randall, 43 North Hermitage street; Stephen Diekneit, 440 West Hanover street, all of Trenton, N. J.

School, Roebling, N. J., \$75,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Board of Education, Florence Township, Thomas F. Watson, Secretary, Roebling, N. J. Brick and concrete, 2 stories, 78x165 feet, slag roof, steam or warm air heating, electric lighting, metal doors, safety treads, metal lath, damp-proofing. Owners taking revised bids, due July 17th. The following are figuring: F. W. Van Loon, Denckla Building; Berry-Goodwin Company, Drexel Building; H. L. Brown, 1714 Sansom street, all of Philadelphia; J. S. Rogers Company, Moorestown, N. J.; R. H. Carty, Hedding, N. J.; and S. W. Mather & Son, American Mechanics' Building; W. J. & J. H. Morris, Broad Street Bank Building; David Tietz & Son, 16 Union street; Daniel A. Dugan, 404 Greenwood avenue; L. Levy & Son, 320 Centre street; I. Harper Clayton, American Mechanics' Building; Burton & Burton, American Mechanics' Building, all of Trenton, N. J.

New Jersey

Contracts Awarded

School (add.), Merchantville, N. J. Architect, H. A. Macomb, No. 214 South Seventh

street, Phila. Owner, Board of Education, Merchantville, N. J. Brick, stone trimmings, 2 stories, 48x182 feet, slag roof, fan system of heating, electric lighting, safety treads, metal lath, concrete floors. Lowest bids submitted by W. R. Titus, Paulsboro, N. J., \$37,699; W. A. Richman, Moorestown, N. J., \$40,990; Monaghan & Losse, Philadelphia, Pa., \$41,833.

Bungalow, Woodstown, N. J. \$5,00. Architect, Lewis A. Irons, 923 Chestnut street, Phila. Owner, Henry C. Lippincott, 6626 Greene street, Gtn. Frame, 1½ stories, 38x48 feet, shingle roof, hot air heating, electric lighting, hardwood floors. Contract awarded to Klos & Reiff, 1132 Race street, Phila.

Rectory, Riverside, N. J., \$10,000. Architect, W. P. Endebroek, American Mechanics' Building, Trenton, N. J. Owners, St. Peter's R. C. Church, Rev. Joseph Keuper, Riverside, N. J. Brick, stone trimmings, 3 stories, 40x36 feet, wing 12x16 feet, slag and tin roof, hot water heating, gas and electric lighting. Contract awarded to Hugh B. Miller, Edgewater Park, N. J.

Proposals

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 13, 1914.—Sealed Proposals will be opened in this office at 3 P. M. August 24, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States Post Office at Bedford, Pa. The building is one story and basement, with a ground area of approximately 4,720 square feet; stone facing; composition roof; first floor of fireproof construction. Drawings and specifications may be obtained from the Custodian of site at Bedford, Pa., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

Miscellaneous Construction News

Church, Wilmington, Del., \$80,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Hanover Presbyterian Church, Wilmington, Del. Stone, 1 story, 90x150 feet, slate roof, electric lighting, steam heating, tile work, metal lath, damp-proofing and water-proofing. Plans in progress.

Store Front, Dover, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Donoho & Son, Dover, Del. Tin roof, gas and electric lighting, new bulk windows. Plans in progress.

Garage (add.), Wilmington, Del. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Hansen Auto Co., 1021 Gilpin street, Wilmington, Del. Brick, 2 stories, 20x40 feet, slag roof, steam heating, electric lighting, concrete floors. Architect taking bids.

Store (alt.), Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Pyle & Co., 619 Market street, Wilmington, Del. Limestone, 2 stories, slag roof, gas and electric lighting, composition floors. Architects taking bids.

Store (alt.), Chester, Pa. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, The Cross Co., 618 Edgmont st.,

Chester, Pa. Marble and copper, electric lighting, terrazzo floors. Architects taking bids, due July 15th. The following are figuring: W. D. Haddock & Co., 804 Orange st., Wilmington, Del., and Amos P. Sheaff, 302 East Fifth street; H. Louis Morris, 312 West Fifth street; Nolan Bros., 524 Market street; David T. Christy, 2124 Madison street, all of Chester, Pa.

Church, Wilmington, Del. \$60,000. Architects (associated), Frederick Mann, Minneapolis, Minn., and Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, Emanuel P. E. Church, Wilmington, Del. Stone, 1 story, 125x68 feet, slate roof, vapor heating, electric lighting, damp-proofing. Architects taking bids due July 16th. The following are figuring: W. D. Haddock, 804 Orange street; A. S. Reed & Bro. Co., 815 Shipley street; W. Howard May, 1014 Rodney street; J. M. Smyth, 2406 West Sixteenth street; H. P. Carlon, 2340 West Eighteenth street, all of Wilmington, Del.

Chapel, Winston-Salem, N. C. Architect, Charles Barton Keen, Baily Building, Philadelphia. Owner, R. J. Reynolds, Winston-Salem, N. C. Brick and plaster, 1 story, 40x63 feet. Owner will take sub-bids. Architect desires sub-bids on iron work, cut stone and mill work.

Hospital, Carthage, O. Architects, Elzner & Anderson, Ingalls Building, Cincinnati, O. Longview Hospital, Carthage, O. Brick and concrete, 2 and 3 stories, 114x219 feet, asbestos roof (heating and lighting reserved), metal lath, water-proofing, damp-proofing, metal sash and frames, kalamein doors. Architect taking bids due July 30th. James H. Wells, Heed Building, Philadelphia, is figuring.

Residence, Crisfield, Md. Architect, Walter Matthews, 5261 Woodland avenue, Phila. Owner, H. H. Matthews, Crisfield, Md. Brick and frame, 2½ stories, 21x35 feet, slate roof, hot water heating, electric lighting. Architect has received bids.

Service Building, London, Ontario. Architect, John Graham, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Terra cotta and concrete, 3 stories, 101x114 feet, tile roof, metal sash and frames, metal doors and trimmings, rolling steel shutters (heating and lighting reserved. Revised plans in progress.

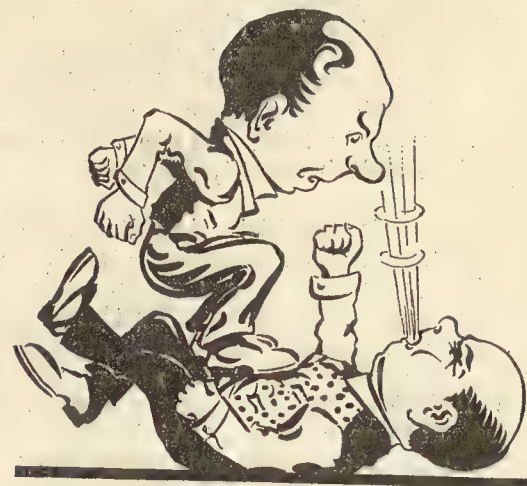
Store Building (alt. and add.), 407 North Howard street, Baltimore. Architect, Louis Levi, Real Estate Trust Building, Phila. Owner, Aaron Strauss, Baltimore, Md. Brick, 3 stories, 25x170 feet, slag room steam heating, electric lighting, maple floors, metal lath, metal ceilings. Plans in progress.

Distillery (alt. and add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Phila. Owner, Maryland Distilling Co., Baltimore, Md. Brick, 4 stories, slag roof, electric lighting. Plans in progress.

Storehouse, Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, Edward Krause, French street, Wilmington, Del. Brick, concrete and steel, 2 stories, slag roof, steam heating, electric lighting, concrete floors, damp-proofing and water-proofing. Architect has received bids.

Round House, Memphis, Tenn. Architect, private plans. Owners, Southern Railway Co., Washington, D. C. Brick, steel and concrete, 1 story, 93x300 feet, slag roof (heating and lighting reserved), dampproofing. Owners taking bids, due July 20th. Roydhouse-Arey Company, Fidelity Building, Philadelphia, are figuring.

Detention House, Wayne County, Michigan. Architect, William S. Stratton, Union Trust Building, Detroit, Mich. Owners, Board of Commissioners, Wayne County, Mich. Brick and concrete, 3 stories; 100x330 feet asbestos roofing, steam heating, electric lighting, metal lath, waterproofing, enamel brick, metal sash and frames. Architect taking bids, due July 20th. Irwin & Leighton, 126 North Twelfth



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"DAILY BUILDING NEWS"

Perry Building, Philadelphia

street, Philadelphia, are figuring.

Service Building, Cleveland, Ohio. Architect, John Graham, Detroit, Mich. Owners, Ford Motor Company, Detroit, Mich. Brick, steel and terra cotta, 4 stories, 157x294 feet, tile roof, metal lath, waterproofing (heating and lighting reserved), cork floors, kalamein doors, metal sash and frames. Architect taking bids, due July 24th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Theatre, Baltimore, Md. Architect, Thomas W. Lamb, 210 West Lexington street, Baltimore, Md. Owners, The Garden Company, 114 West Lexington street, Baltimore, Md. Brick and terra cotta, fireproof, 3 stories, 80x156 feet, tile and slag roof, steam heating, electric lighting, metal lath, waterproofing, elevators, kalamein work. Architect taking bids, due July 18th. The following are figuring: Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; A. Raymond Raff, 1635 Thompson street, all of Philadelphia; Singer-Pentz Company, J. Henry Miller, William Ferguson & Co., Consolidated Eng. Co. and Morrow Brothers, all of Baltimore, Md., and Fleishman Brothers, 507 Fifth avenue, New York City.

Club House, Columbus, Ohio. Architects, Frank L. Packard & G. R. Bassett, Columbus, Ohio. Owners, Columbus Lodge, No. 37, B. P. O. E., Columbus, Ohio. Brick, limestone or terra cotta and steel, fireproof, 3 stories, 115x50 feet, wing 94x64 feet, green slate and composition roof, steam heating, electric lighting, concrete fireproofing, waterproofing. Architects taking bids, due July 25th. James H. Wells, Heed Building, Philadelphia, is figuring.

Church (alt. and add.), Sparrows Point, Md. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owners, St. Matthew's Church, Sparrows Point, Md. Brick and stone, 1 story, slate roof, electric lighting. Owners taking bids. Cowan Building Company, Baltimore, Md., is figuring (only bidder).

Miscellaneous Contracts Awarded

Residences (6), Wilmington, Del. \$21,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick and stucco, stone trimmings, 3 stories, 16x50 each, tin roof and slate roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath. Contract awarded to Chas.

J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Residence (alt. and add.), Wilmington, Del. \$4,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, William G. Coxe, 1005 Broome street, Wilmington, Del. Brick, 3 stories; consists of alterations to first floor. Contract awarded to J. E. Healy & Sons, 707 Tatnall street, Wilmington, Del.

Garage (alt. and add.), Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Overland Garage, Wilmington, Del. Brick and concrete, 1 story, 21x50 feet, slag roof, electric lighting, concrete floors. Contract awarded to J. F. Owens & Son, 1103 West Fourth street, Wilmington, Del.

Armory, Newark, Del., \$15,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner State of Delaware, Dover, Del. Brick, 2½ stories, 62x112 feet, slate roof, steam heating, electric lighting, composition floors, electric lighting, metal lath, steel and truss roof. Contract awarded to William H. Jones & Co., 823 Shipley street, Wilmington, Del.

Bungalow, Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Mrs. John Mitchell, Wilmington, Del. Brick, 1½ stories, 32x55 feet, asbestos shingle roof, hot air heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to J. F. Owens & Sons, 1103 West Fourth street, Wilmington, Del.

Residences (3), Wilmington, Del. \$2,500. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 16x50 feet, metal lath, slag roof, hot air heating, combination lighting. Contract awarded to Egbert Nutter, 6 West Thirtieth street, Wilmington, Del.

Residences (3), Third street and Maryland avenue, Wilmington, Del. Owner, Mrs. M. Wehle, Wilmington, Del. Brick, 3 stories, 17x40 feet, tin roof, steam heating, combination lighting. Contract awarded to John P. Rearden, 807 Shipley st., Wilmington, Del.

Bakery and Stable, Schenectady, N. Y. \$53,500. Architect, Charles Balderston, 411 Walnut street, Phila. Owner, Charles Freihofers Baking Co., Inc., Troy, N. Y. Brick, 2 and 3 stories, 31x70 feet and 72x172 feet, slag roof, heat and light separate bids. Contract awarded to P. Haibach Contracting Co., Twenty-sixth and Thompson streets, Philadelphia, Pa.

Factory Building, Wilmington, Del. Architect, private plans. Owners, J. E. Rhodes & Sons, Eleventh street and B. & O. R. R. Brick, 1 story, 60x150 feet, slag roof, electric lighting. Contract awarded to Harry S. Lynch, 715 Tatnall street, Wilmington, Del.

street. Turner Concrete Co. (C), 1713 Sansom street. Cost, \$90,000. Manufacturing building, brick, 5 stories, 208x50 feet, 2224 North Ninth street.

S. S. Wilmer (O), 3211 Comly street. Cost, \$16,000. Eight dwellings, brick, 2 stories, 14x30 feet, 3302 to 3316 Vankirk street. Cost, \$4,400. Two dwellings.

F. H. Bernheim (O), 1401 Germantown avenue. Cost, \$5,000. Storage, 314 Master st.

John Lang Paper Co. (O), Twenty-fourth and Vine streets. W. H. Eddleman & Sons (C), 453 Green lane. Cost, \$1,000. Storage, Twenty-fourth and Vine streets.

Dr. E. C. Bender (O), 330 South Fifty-second street. E. E. Hollenback (C), Fifteenth and Race streets. Cost, \$2,000. Residence, 330 South Fifty-second street.

A. B. Deitrich (O), 5708 Tulip street. F. W. Dietrich (C), 5708 Tulip street. Cost, \$2,400. Residence, brick, 2 stories, 25x40 feet, Dittman and Devereaux streets.

Rush & Quirk (O), Fifty-eighth and Addison streets. Cost, \$52,000. Twenty-six dwellings, brick, 2 stories, 16x35 feet. Cost, \$52,000. Twenty-six dwellings, Hoffman and Frazier streets.

T. W. South (O), Disston and Keystone sts. Cost, \$3,200. Two dwellings, brick, 2 stories, 16x42 feet, Disston and Keystone streets.

Peter Salovy (O), Melrose and Orthodox streets. A. H. Nagorski (C), 2416 Orthodox street. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x42 feet, 2412-14 Orthodox street.

William Wilson (O), 127 South Fifty-first street. Cost, \$7,000. Two dwellings, brick, 2 stories, 15x42 feet, Fifty-seventh and Catherine streets. Cost, \$32,500. Thirteen dwellings.

D. Lugaro (O), Cambria and Fountain sts. J. J. Hurley (C), 503 East Montgomery avenue. Cost, \$2,200. Dwelling, brick, 2 stories, 18x38 feet, Cambria and Fountain streets.

C. Kessler (O), Glenside, Pa. George Kessler (C), Drexel Building. Cost, \$5,500. Two dwelling, brick, 2 stories, 15x60 feet, Broad street and Wyoming avenue.

W. B. Smith (O), Wynnewood, Pa. M. W. Young, Overbrook, Pa. Cost, \$18,000. One dwelling, stone, 3 stories, 25x50 feet, Overbrook, Pa.

Kahn & Greenberg (O), Morris Building. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$150,000. Service Building, brick, 3 stories, 78x240 feet, Twenty-third and Chestnut streets.

A. M. Zane (O), Land Title Building. Cost, \$67,500. Twenty-seven dwellings, brick, 2 stories, 15x30 feet, Thirteenth street and Wyoming avenue.

C. A. Asher (O), 5605 Germantown avenue. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$10,000. Bakery, brick, 3 stories, 53x35 feet, 5605 Germantown avenue.

F. L. Davis (O), Thirteenth street and Neddre avenue. Cost, \$2,500. Dwelling, brick, 2 stories, 12x42 feet, Hutchinson and Champlott streets.

Harshaw, Fuller & Goodwin Co. (O), Philadelphia. A. Raymond Raff (C), (C), 1635 Thompson street. Cost, \$25,000. Store house, brick, 2 stories, 40x54 feet, Swanson and Jackson streets.

M. Rutberg (O), 867 North Seventh street. Gelman & Shafkin (C), 706 Hoffman street. Cost, \$4,000. Store and dwelling, brick, 3 stories, 18x53 feet, Seventh and Winton sts.

J. J. Greenburg (O), Morris Building. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$12,000. Service Building. Brick, 6 stories, 43x221 feet, Twenty-fourth and Chestnut streets.

Alterations and Additions

Tognareri & Voigt (O), 1743 North Twelfth street. Cost, \$4,000. Manufacturing, 1743 North Twelfth street.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

A. Forepaugh (O), 1650 Pratt street. Cost, \$5,400. Three dwellings, brick, 2 stories, 14x40 feet, Hawthorne and Dye streets.

J. Bernhard (O), 3029 North Fifth street. H. Dokenwadel (C), 1148 Rising Sun Lane. Cost, \$750. Dwelling, brick, 2 stories, 12x32 feet, 2032 Orkney street.

Patrick McCollough (O), 420 Monroe street. \$5,600. Two dwellings, brick, 3 stories, 11x17 feet, 929-31 South Fifth street.

Egnal & Saidel (O), 4146 Leidy avenue. Cost, \$15,000. Five dwellings, brick, 2 stories, 16x54 feet, 5120-28 Warnock street.

J. Towhig (O), 2959 Kensington avenue. T. McCarthy (C), 437 Auburn street. Cost,

\$3,250. Dwelling, brick, 2 stories, 15x50 feet, D and Ontario streets.

Jacob Bros. (O), 1422 Catherine street. Cramp & Co. (C), Denckla Building. Cost, \$75,000. Manufacturing building, brick, 3 stories, 188x60 feet, Broad and South streets.

J. M. Cassel & Sons (O), 2531 North Carlisle street. Cost, \$5,000. Two dwellings, brick, 3 stories, 16x40 feet, Sixty-fifth avenue and Broad street.

Ed. Baxt (O), 1359 Germantown avenue. A. Rubin (C), 1127 Thompson street. Cost, \$1,600. Storehouse, brick, 3 stories, 15x50 feet, 1357 Germantown avenue.

J. Sullivan & Sons (O), 2224 North Ninth

F. S. McIlheny (O), St. Martins, Pa. Pringle Borthwick (C), 8018 Germantown avenue. Cost, \$1,500. Garage, brick, 1 story, 22x22 feet, St. Martins, Pa.

J. R. Foster & Sons (O), Second and Clearfield streets. F. Archue (O), 1600 North Front street. Cost, \$3,000. Pump house, Second and Clearfield streets.

M. Seidman (O), 1124 South Fourth street. J. Neinan (C), 1029 Jackson street. Cost, \$2,800. Store and dwelling, Seventh and Winton streets.

Robert William (O), Sixtieth and Chestnut streets. J. D. Fisher (C), 5718 Market streets. Cost, \$4,000. Garage, Sixtieth and Ludlow streets.

H. B. Conner (O), 1511 Poplar street. C. A. Eckels (C), 2300 Columbia avenue. Cost, \$1,000. Residence, 1511 Poplar street.

Ed. Powell (O), 1333 North Fifteenth street. P. Haibach Cont. Co. (C), Twenty-sixth and Thompson streets. Cost, \$1,200. Dwelling, 1333 North Fifteenth street.

George Miller (O), 1306 Chestnut street. Stuckert & Sloan (C), Crozer Building. Cost, \$10,000. Store, 1310 Chestnut street.

George H. Earle, Jr. (O), Real Estate Trust Building. Smith-Hardican Company (C), 1606 Cherry street. Cost, \$10,000. Store and apartments, brick, 3 stories, 34x30 feet, 624 South Broad street.

Girard Trust Company (O), Broad and Chestnut streets. J. M. Daniels (C), 252 South Juniper street. Cost, \$3,730. Dwelling, Robert and Wissahickon avenue.

John & James Dobson (O), Manayunk. Cost, \$10,000. Shop, Manayunk.

E. J. Flood (C), 640 Carpenter street, Germantown. W. C. Wright (C), 22 Harvey street. Cost, \$2,500. Dwelling, 640 Carpenter street.

Lit Brothers (O), Eighth and Market streets. Cost, \$9,000. Store.

H. R. Shoch (O), 1503 North Sixteenth street. H. R. Henricke (C), Drexel Building. Cost, \$1,280. Factory, Hunting Park apenue and Stokley street.

J. N. Schwanberg (O), 5150 Ludlow street. David Larkin (C), 1521 South Fifth street. Cost, \$5,600. Store and dwelling, 5607 Chester avenue.

India Refining Company (O), McKean and Swanson streets. J. R. Jackson (C), Perry Building. Cost, \$1,000. Shed, McKean and Swanson streets.

Braun & Lenard (O), 21 North Fifty-second street. S. Lashner (C), 1700 South Fifth street. Cost, \$3,000. Dwelling and store, 24 North Sixtieth street.

Mrs. A. C. Andrews (O), 5233 Market street. D. F. Wholey (C), 1109 Indiana avenue. Cost, \$2,400. Store and dwelling, 5233 Market street.

W. D. Disston (O), Chestnut Hill. W. J. Gruhler (C), 219 High street. Cost, \$1,500. Dwelling.

A. Bonnem (O), 2135 Erie avenue. J. Rose & Sons (C), 5121 Brown street. Cost, \$4,000. Apartment House, 1823 Diamond street.

Trinity Church (O), Broad and Wyoming streets. Fred Weiss (C), 4825 North Mervine street. Cost, \$2,000. Chapel, Broad and Wyoming streets.

Talking Machine Company (O), 139 South Broad street. Lam Building Company (C), 1001 Wood street. Cost, \$1,800. Store, 139 South Broad street.

S. Voigt (O), Twenty-second and Cambria streets.

Jacob Savadove (O), 505 South Eight street. S. Schultz (C), 923 East Moyamensing avenue. Cost, \$4,000. Hall, 717 Fairmount avenue.

V. I. Ridenour (O), 3233 Ridge avenue. Le Roy K. Smith (C), Forty-first and Chester avenue. Cost, \$3,000. Store, 3233 Ridge ave.

Allen, Lane & Scott (O), 1211 Clover st. F. L. Hoover & Sons (C), 1023 Cherry street. Cost, \$925. Vault, 1211 Clover street.

Philadelphia Home-Made Bread Co. (O), 1441 North Twelfth street. P. Haibach Construction Co. (C), Twenty-sixth and Thompson streets. Cost, \$2,000. Elevator, 1441 North Twelfth street.

Holy Trinity Church (O), Eleventh and Rockland streets. Stuckert & Sloan (C), 1420 Chestnut street. Cost, \$20,000. Church, stone, 1 story, 56x68 feet, Eleventh and Rockland streets.

C. Spinelli (O), 521 Carpenter street. A. Codamo (C), 1636 South Juniper street. Cost, \$1,500. Store and dwelling, 521 Carpenter st.

Newman Hardware & Supply Co. (O), 4320 Germantown avenue. M. M. Bean (C), 4411 Germantown avenue. Cost, \$2,800. Store and dwelling, 4320 Germantown avenue.

S. L. Fridenberg (O), 908 Chestnut street. Humphrey Construction Co. (O), 1618 Thompson street. Cost, \$3,000. Storage, 909 Sansom street.

M. W. Belber (O), 516 Pine street. M. Stevens (C), 912 Fenshaw street. Cost, \$3,175. Sixth and Pine streets.

L. G. Jordan (O), 622 South Eighteenth st. W. J. Robinson (C), 1508 Lombard street. Cost, \$990. dwelling, 622 South Eighteenth st.

J. D. McClintock (O), 4608 Spruce street. Louis Pearlstein (C), 1521 North Tenth street. Cost, \$6,000. One dwelling, brick, 3 stories, 3229 Montgomery avenue.

Archbishop E. F. Prendergast (O), Eighteen th and Race streets. McLoughlin & McNamara (C), 3973 Elser street. Cost, \$9,800. Vhurch, Broad and Butler streets.

Davidson and Silberman (O), 808 Snyder avenue. Cost, \$12,000. Store and dwelling, brick, 3 stories, 17x34 feet, Twenty-second and Fox streets. Cost, \$3,600. Store and dwelling. Cost, \$5,400. Store and dwelling.

C. Lakowiz (O), 2015 Orthodox street. Cost, \$3,000. Two dwellings, brick, 2 stories, 15x40 feet, James and Haworth streets.

to despise as my professional copy-cats, insult me through the office boy. I've had to conduct business with his key-board Sadie instead of the architect who has to stand off the landlord as many months of the year as you can eat oysters. I've had to talk business with Whippersnapper of Dinky and Whippersnapper while he put on his gloves going down in the elevator. I've been instructed in floor construction from the plank-ing in the ark to the fireproofing of Hades by little Archie Teck, waste-product of a correspondence school. I know you're not that kind, Tom; infact, I've waited for you often while you heard a man through his story, but then you are bigger and more intelligent than the average practitioner and realize that a man must learn the new things somehow or fall into a rut and that when a vitally interested expert will tell him first hand all about it, it's the quickest way out to get a strangle hold on a new idea."

Now I know Jack like a book and it seemed to me that he was just a little unfair in the way he gave his adverse verdict on the architect's interest in processes and materials. You know Jack was a bit high-handed himself when he was an architect, not only with the stranger without his gate but even to the draftsman within. He had been an architect more years than he has been a manufacturer and has never entirely lost that point of view. He was always restive under professional criticism when in practice and you can realize how the caste distinction which the profession sets up against the manufacturer would gall an erstwhile architect.

"You're all wrong, Jack," said I after thinking it over. "You go around to your former compatriots with your head loaded with information, but your shoulder loaded with chips. You forget that your are no longer an architect and when all's said and done are but a manufacturer asking favors of architects, asking the boon of a specification * * *"

"Asking nothing! Tom. I'm simply trying to gimlet those boneheads so I can let in the bright light that times have changed since Kidder wrote his Pocket-book. I'm not asking favors, I'm doing favors! I'm bringing to their very doors the extra of to-day's best construction achievements. I'm trying to make them worth at least part of the commission they get from those unsuspecting victim of misplaced confidence who vainly imagine that they are getting modern building assistance from a lot of crack-brained stand-patters. I've got a real message for everyone of them. Lots of the other men who visit their offices with models and literature have a message for them, also. They ought to be anxious to be informed. They are also accused of being impractical, and justly so; and demonstrators could make them practical. We bring practical things to their very offices to show them how to work. Do they learn? Why, they won't even see us. They won't find out how a new screen works until a mosquito drills Mrs. Big Client's epidermis. A child, an Indian, or a scientist would beseech us for a look. An architect

(Continued on page 457.)

THE SEAT OF THE MIGHTY

I was over to the Rams' Club for luncheon a while ago and ran across Jack Shrewd. You will remember that he used to be the designing half of Schuyler and Shrewd until he married Janet Billings, and old man Billings insisted that he go into the prosperous Billings Floor Company to learn the business and continue it after Angina Pectoris had dropped the snuffer on the old man.

I knew Shrewd well, because I had appreciated his architecture and because I used to play little parts with him in the Rams' Barn-butting Tours. It takes a mask of grease paint to becloud a man's features and reveal his soul. Jack was wrought up and began to

give vent to a tirade on what he called the snobbishness of the architect's back door. You see, he now has to present the value of the Billings-Shrewd Floor-system to his quondam brother architects who have forgotten his own professional career or even that he ever had an architectural career at all, so that he is on exactly the same footing as the regular advertising demonstrator. You should have heard him rant.

"Why, Tom, you know how much the average architect earns, or doesn't ear. My clerks get more. But I've had the littlest of the little break six engagements with me hand-running. I've had the very men whom I used

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Editorial Comment

June of last year was a month of unusual activity in the building field throughout the United States, many of the leading cities registering almost unprecedented totals in the matter of expenditures for new work. Despite this fact, June, 1914, shows up with an increase over these figures. True, the increase is not marked, amounting to something like three per cent., but it is an increase for all that, and everything considered, goes to prove that depressions, whether psychological or actual, have no place in the demand for new construction.

The reports in question show that 19,126 operations were begun in the cities in question last month, involving the expenditure of \$71,147,006, compared with 17,864 operations, costing \$68,760,329, in June, 1913, an increase of 1,262 in operations and \$3,386,676 in cost.

Gains ranging between two per cent. and 419 per cent. are shown in forty-six, and losses between one and eighty-four per cent. in thirty-four of the cities from which statistics are quoted. Chicago leads in volume of work, with an expenditure of \$9,538,300, a gain of twenty-five per cent. over June, 1913. Boston shows a gain of 22 per cent., Brooklyn 73 per cent., Buffalo gain 11 per cent., St. Paul 84, Kansas City 80, Seattle 29, Baltimore 30, Toledo, 117, Albany, 419, Worcester, Mass., 38, Columbus, O., 12, Springfield, Mass., 13, Louisville, Ky., 40, Erie 41, New Haven 29, San Diego, Cal., 10, Wilkes-Barre 365, Omaha 19, Fort Wayne 44, Pasadena, 124; Utica 21, Nashville 15, Springfield, Ill., 313, New Bedford, Mass., 15, Trenton 3, San Antonio 41, Portland, Me., 34, Duluth 48, Tampa 62, Lawrence 131, Paterson 120, Stockton, Cal., 18, Richmond, Va., 12, East St. Louis 43, Altoona 2, Allentown 96, Holyoke 182, Harrisburg 61, Kansas City, Kans., 130, South Bend 86, Sraoton 26, Troy 83, Topeka 35, Reading 166, San Jose 63.

New York had a loss of 7 per cent., Philadelphia 9, Pittsburgh 34, Los Angeles 30, Minneapolis 11, San Francisco 22, Rochester 29, Indianapolis 11, Portland, Ore., 11, Dallas 37, Newark 46, Oakland, Ca., 21, Akron 15, Atlanta 36, New Orleans 45, Youngstown 46, Sacramento 41, Memphis 60, Cedar Rapids, Ia., 45, Peoria 12, Savannah 38, Charlotte 16, Berkeley 20, Schenectady 65, Elizabeth, N. J., 31, Bayonne 5, Spokane 79, Tacoma 84, Hoboken 36, Chattanooga 54 and Pueblo 16.

* * *

Taken in conjunction with the fact that the figures covering local structural activity show a gain for the first six months of 1914 over the same period during 1913 conditions cannot be regarded as other than distinctly hopeful and encouraging. This outcome is more remarkable when it is recalled that the first three months of 1914 seemed to indicate a somewhat marked falling off from the usual average. "The Guide" was among the first to predict that despite this inauspicious be-

ginning the totals for the year would gradually expand to about the usual figures. This prediction, it is now plain, will be fully justified. Indeed, there is reason now to believe that not only will Philadelphia record about its normal average of expenditure, but that the country in general will show about the normal activity in structural affairs, prophets of pessimism and ghouls of gloom to the contrary notwithstanding.

* * *

One of the noticeable features of the building activity in evidence throughout the country is the unusually large number of schools planned and in process of erection. One would gather that the demand for increased educational facilities reaches from coast to coast. From the smallest villages to the largest metropolitan centers school building seems to be developing at an almost phenomenal rate. Fully four-tenths of the items in contemporary construction news relate to new school buildings. The mass expenditure in this one item throughout the country will reach a total truly enormous. Firms who specialize in school building, school equipment or supplies would certainly seem to have little cause for complaint on the score of any lack of opportunities.

* * *

When the history of Philadelphia comes to be written a large meed of credit will be discovered due to a small group of industrial pioneers the individual members of which have contributed generously to her greatness as a city. To such men as John Wanamaker, Thomas Dolan, P. A. B. Widener, John H. Converse, John Gribbel, Cyrus H. K. Curtis, J. B. Lippincott, E. T. Stotesbury, Henry Disston, George A. Baer, Samuel I. Rea and William L. Elkins. Philadelphia owes a debt of gratitude not generally recognized and not easily repaid. These men are the builders of Philadelphia's greatness, the master minds to whose constructive genius and prophetic instinct Philadelphia owes in a considerable degree her present eminence as a great modern municipality. One of these master builders passed away only the other day in the person of Thomas Dolan, directing head and presiding genius of the United Gas Improvement Company. Mr. Dolan contributed materially to the advancement of Philadelphia as a great modern city. Self-made, honorable, far-seeing and resourceful, Thomas Dolan has left behind him a wholesome and inspiring example for generations of Philadelphians yet to come. As traction promoter, electric lighting developer, manufacturer, organizer of the United Gas Improvement Company and private citizen, Thomas Dolan has been a beneficent influence in the community. What is true of Thomas Dolan is true of the others mentioned in this passing editorial reference. Philadelphia owes an obligation of respect, of honor, of remembrance to these pioneers in

her development, owes a high place in the popular regard to these high-minded, sagacious and intrepid barons of "big business," who, anticipating her growth, have had the courage, the resource and the capacity to match large opportunity with large enterprise and to manage both with unsullied honor and unblemished personal repute. The man in the street seldom pauses to reflect how deep is the obligation of the private citizen to the man who, conceiving a great enterprise, so manages it as to advance the good name of the city among men of clean and lofty ideas.

In the death of Thomas Dolan Philadelphia lost one of the greatest of this group of the men who "made Philadelphia." The editor of "The Guide" esteems it a privilege to hand this little tribute to the memory of one of the greatest Philadelphians, constructively speaking, of the present century—a captain of industry whose methods were clean, whose aims were high and whose example remains wholesome, sweet and stimulating. Philadelphia is to be congratulated that it is able to breed and to nurture such citizens—men who, living achieve great things, and dying bequeath to the rising generation the influence of lives honorably lived and victories legitimately won.

* * *

The commission appointed by the Sixty-second Congress to frame a standard by which the size and cost of public buildings shall, so far as practicable, be determined, and also to report as to the adaptability in size, accommodations and cost of buildings hitherto authorized to the communities in which they are to be located, has recently turned in its report. A feature of this report is a minority expression from Postmaster General Burleson, who believes that in order to "remedy the conditions against which the law creating the commission was directed" "an entire new public building policy is necessary."

These conditions, briefly summarized, are unintelligent procedure in making appropriations for governmental buildings and congestion in the Supervising Architect's office, which is, for various reasons, behind in its work from two or three years to eight or ten years, according to various estimates.

Mr. Burleson presents tables, from which we quote five instances as exhibiting gross inconsistencies in the matter of appropriations:

Area, square feet.	Appropriation.
Wilkesbarre, N. C., post office and court house..	4,500 \$58,000
Opelika, Ala., post office and court house.....	4,500 105,000
Coeur d'Alene, Idaho, post office and court house..	7,000 86,800
Amarillo, Texas, post office and court house...	7,000 199,999
Corpus Christi, Texas, post office and court house..	10,000 131,000

"From other sources," says "The American Carpenter and Builder," "we glean the interesting information that the town of Chadron, Neb., with a population of 2,687, according to the census of 1910, is to have a

building to cost \$110,000. Willows, Cal., 1,139 population, a \$75,000 building, and Fallon, Nev., rejoicing in 741 inhabitants, will be favored with one costing \$60,000. The latter may be envied by Vernal, Utah, which exceeds Fallon by ninety-five souls, and for which only \$50,000 has been appropriated. East Orange, N. J., with 34,371 inhabitants, will have a building to cost only \$15,000 more than Chadron, although it has twelve times the population. If the appropriation for Chadron is rational, then East Orange has bitter cause of complaint; it should be dowered with a structure to cost not less than \$1,320,000. With forty-six times as many citizens, its building is to cost only a little over twice as much as that for Fallon.

"It must be equally evident to the architect and to the business man that appropriations so widely at variance for structures of the same accommodation are not rational.

"It is, of course, entirely possible that there may be mitigating reasons for these disparities. But it is very evident that the appropriations given are not based on service requirements, but are measurable by the ability of Congressmen to put them through.

"Mr. Burleson, in defining what he believes to be a true public buildings policy, says:

"The true policy is one under which buildings will be authorized primarily for economic reasons, and constructed primarily for utilitarian purposes. The effect of this policy will be to subserve the material interest of the Government and to make possible orderly procedure under a logical program; at the same time requirements of broad public policy, as well as ideals of architecture, may be satisfied in a reasonable degree.'"

THE SEAT OF THE MIGHTY.

(Continued from page 455.)

won't even read our cards. Every other class of men investigates new things. When they put a mule in a cage and lower him into a subway excavation with a windlass and boom, all the seven ages of man look into the matter. When they put a man through the airlock of a foundation caisson, the average passer-by will stop long enough to learn all about it. He'll take a lesson from that observation to store in his brain. How about your architect? Send me around to tell him about his brother mule and he'll throw me out of his office. Send me to explain an airlock and he'll bawl me out of his place under three atmospheres' pressure. I know you'll say that the subway people aren't trying to sell the mule, and the Foundation Company isn't trying to sell the hand-hog to the innocent bystander—so he has no suspicions of the instructor's self-interest. Well, I may be trying to sell them a floor but they don't have to buy it and they can get the information free gratis for nothing by giving up ten minutes' time. When a shopper spends her time before a beautiful window display she doesn't have to buy. She can find out just how much stocking Anthony Comstock and Fashion will let her show a policeman without buying the slit in the skirt or the stocking to fit it. You architects either haven't

got anything to learn with or else it's too full of vanities to leave space for realities."

"Hush, Jack! You're disturbing the peace of the Ram's Club. You charge into architects like a bull in a china shop instead of pulling yourself gently in on a handshake. What if you do think your quondam associates arrogant, can't you be persuasive? Can't you flatter and wheedle and charm and convince? Why any commonplace man can do that much, but you can't, and you are an actor!"

"You're an actor yourself, Tom, old Top! Do you for a instant imagine that you could take along Mona Lisa herself and with it under your arm tread the boards of the average architect's office, pass the office boy, cajole the telephone girl, convince the specification-writer and manager and finally finish the play by the royal finale of actually showing the picture to the King on his throne? Then cheers, exit, curtain! I'll tell you what, Tom, I'll bet you a dinner here at the Rams' Club with champagne in Ram's horns of plenty that you can't disguise yourself as a demonstrator and get two architects out of five to see our next exhibition in New York City. I'll authorize you to offer to give away a thousand feet of my construction to the first of their clients to use it and put in the rest at cost. All names taken at random out of the New York catalogue except one which I'll name arbitrarily. That's a fair test of your arguments in favor of your broad-minded profession. Come, sir, you're an actor. You are a suave, foxy old cuss and you know my subject as well as I do myself, and you know that architectural nature with which you must deal. You know that what you will present is a good thing, which has the right kind of a company behind it to further the architect's interests. In short, you are honestly convinced that you come bringing a message that these men ought to hear."

"Done! I'll take you! I'll round up all five!" accepts sporty Tom Thumtack.

Jack got a New York catalogue in which the name were all numbered, and nominated number thirty-nine. I took three, thirty-three

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and three hundred and thirty-three and the last number. Jack triumphantly announced that I had drawn Best, Drake, Foster, and Western and Black, while he had nominated Edson. We arranged to meet at the Rams' at 7.00 P. M. that day week, and each of us feeling sure that the other would be wrong and have to pay for it, joined in selecting the menu of an elaborate dinner. Before we got through it had run to a point where it would certainly make me work and Jack pray.

He attended to my make-up for the part. I am a tall, gaunt person and of late years have been clean-shaven and careless in dress and deportment. Jack said that he was letter perfect on the proper dress for impressing, and as we knew from previous plays that we are of a size, he suggested that we simply change clothes. I was anxious to win my dinner that very day and wanted to use the next hour to talk to Best. Jack took me down stairs to the barber and sacrificed my unkempt ambrosial locks on the altar of advertising, then made me up, and I took his literature and set out on my journey.

My first man was Best. I called up his office boy and said that I was the office boy at Carrere & Hastings, and wanted to talk to him about forming a bowling league. Would come right up to see him if his boss wasn't in. "For Mike's sake, wait an hour, the boss is here now and won't leave until three!" Thus authoritatively posted on Best's whereabouts, I went right up to see him. As you all know, he is a short, swart, thick-wristed Italian-looking man, with short, crisp hair and manner. To my surprise, the office boy to whom I had just been telephoning, took one look at me, asked me if I knew Mr. Best personally, and on a negative answer said, "Mr. Best isn't in! Give your spiel to Mr. Anthony." "My business is with Mr. Best," I explained after one glance at the vindictive chap who pricked up his rat-terrier ears at the first mention of his name.

Gus didn't know when Best would be in that day, didn't know when he would be in the next day. "Better shoot the bull to Anthony," was his confidential tip.

The afternoon that I had intended to devote to a friendly instruction of the fascinating Mr. Best seemed quite free for the conquest of other worlds. To make a long afternoon short, I'll say that the truth of Shrewd's prediction was more than demonstrated by the next hour's experience. Not a single principal would see me. One man was busy doing nothing in plain sight. Western referred me to their specification writer, who was majestically unconcerned. I was sore and desperate. My soul hadn't been so harrowed with disappointment since I pounded the pavements for my first job as a draftsman. I had never since been made to feel so sharply the bitterness of my insignificance.

Just as I got to Mr. Edson's there came in a man with "Client" written all over him. There was an obsequious rush and scuffle to announce him to the boss. This made me bitter. Here I had a newly-invented floor construction, of interest to every up-to-date practitioner, and I was authorized to give the client of the first listener three hundred dollars' worth for nothing, and not one of my five would so much as hear me. The only man they would see was a client. The comparison between his reception and mine wrenched my mind, tortured it, and bred in it a new idea. I was acting a part, anyway; I'd act a double part. I was an architect acting demonstrator; I'd act the part of client also. So I collected a new make-up.

First I tried Best—Mr. Dominee, a client for a new school, wanted to see him. That got me into the biggest chair in his library. From his private cubby-hole office right-upper entrance, waddled John Best with his confident lip-smile. There undoubtedly was something compelling about him. He was certainly clever, but I knew by reputation that he was only a bluffer. He had never built a regular school, but had done a building for an art center. When I said I wanted a private collegiate school he immediately created the impression that it was his specialty. Asked about Shrewd's floor construction after giving a little hint that I liked it, he gave me a fluent discourse on floor construction, and it took a really close dissection to find that he had tactfully omitted to say that he had ever used a Shrewd floor, and a deeper inspection to find that he really knew nothing about it. I mentioned that I went to college with Shrewd and that he had invited me to see his exhibition the following Friday, but that a motor trip would prevent my attending. On my return I would call again on Mr. Best. I tried the same tactics on Western & Black, and it was harder to get out of Black's clutches than out of a Bowery haberdasher's. Yes, he knew the Shrewd construction, had just put in a similar one in the High School in Pittsfront. Used to do a thing like the Shrewd when he had charge of McKim, Mead & White's. Where was my school, etc., etc., etc. Had

intended to take in Shrewd's demonstration. Foster was out of town. Office manager most solicitous. Would telegraph Foster immediately. The plan was working so well, I told him not to bother. Just mentioned that I wanted to use Shrewd's floor. Office manager said he had intended giving himself the rare treat of attending that demonstration on Friday.

I hadn't had a first chance at Edson, and since I had tried all the others, I thought in all fairness he ought to get an equal chance at my three hundred dollars in my original role of plain demonstrator! His office made me write my name and business on a card and, wonder-of-wonders, Edson would see me. I found a tiny man whose face gave the impression of a Howard Pyle pirate. His manner was alert and punctilious, but gave me an uneasy impression of snobbishness. But I assumed my most conciliating address and told him that I had seen and admired his work; thought he was progressive—"Yes! Yes!" snapped Mr. Edson apparently seeing the glimmer of a great light, and "I wanted him to see my new construction." "What? See your new construction! Are you taking up my time trying to get me to specify something! I won't take it up with you at all. I'm busy! Get out! George!" he shouted, as he tore out of the room. "Show me that card!" There he read the words "about new construction." "Damn it all, George!" I heard him sputter. "I thought he was a client who wanted a new building!" "You're the worst of the lot," I said to myself as I went down the stairs. "I know I could work you so well with my great client act that I won't take the trouble to try it."

On Friday I went to Jack's demonstration in my own proper person. Awaiting him were the three architects and Foster's head draftsman. I had won my dinner. Best made the strongest impression, Drake seemed very solicitous. The head draftsman was the only man who was really sincere. The others were only memorizing their impromptu speech to spring on Mr. Dominee. Shrewd was non-plussed but delighted.

That night at the Rams' Club our little table was a beautiful picture. Nobody else has the art of our chef and the Rams pride themselves on the way they set the stage and the table. Two pastmasters had chosen the viands, and my mind was relieved anew every instant by the thought that it was Jack who was paying. When we were almost through and very happy, Jack asked me about the four who had attended the demonstration. I thought best to disclose my client bait which had landed all the others, but expatiated on my reception at Edson's, his mistake and then his rude dismissal. Jack seemed vexed during the telling of my client trick, but when I got through with Edson he began to laugh in a way which would frighten wild animals in a menagerie, but passes at the Rams' Club unnoticed. When at last he got breath enough he just shouted, "Edson wouldn't look at my floor! Why, Good Lord, man, he invented it!"—Tom Thumtack in "Architecture and Building."

SEA AIR AN ENEMY OF CONCRETE

The past winter along the south side of Nassau County has demonstrated that brick and frame building construction is superior in a salt atmosphere to concrete construction. Hollow tile by itself is all right, but it has been found almost impossible to make concrete adhere permanently to it in a salt atmosphere, according to a Nassau County developer.

Lumber dealers as a consequence are receiving larger orders for general lumber from the south side of Nassau County this spring than they have received since concrete construction became extensive. On the other hand, the inland suburban districts in New Jersey and Westchester County are showing an increase of hollow tile and stucco exteriors placed over wire lath.

It now seems likely that so far as southern Nassau County is concerned exterior frame construction as well as interior has come to stay. The bulk of new house construction this spring bears out this statement.—New York "Sun."

SEND BUSINESS MEN TO CONGRESS.

More business men should sit in the Halls of Congress. The most important legislation of the day seeks to regulate the conditions under which business shall be transacted, but there is a deplorable lack of expert business talent in both branches of Congress. Business legislation is framed by lawyers and labor leaders. The only thing business men seem able to do is to kick.

The reason for this is sheer lack of interest on the part of those who should be most interested. The people of this country as a whole are prone to delegate their political duties to professional politicians. This is especially true of men in the ordinary lines of commerce, who believe their interests to be amply protected if they vote once or twice a year. Nothing could be a greater mistake.

Business men must interest themselves in their local political organizations if they wish to have well balanced men represent them in the National Legislature.

Never mind to what party a candidate belongs, if he is honest and sincere in his opinions and will devote his term to the interests of the people of the country, and not to political vote baiting, he deserves support.

What is the proportion of business men in the House which framed the Administration's anti-trust legislation? According to the Congressional Directory there are 435 members, of which 272 are lawyers, 14 farmers, 27 journalists, 65 business men of all kinds, including salesmen and clerks, 4 physicians, 8 educators and the remaining are men of miscellaneous professions and occupations.

The chairmen of most of the important committees in the House are men who come from small Southern towns, which appear on big maps only.

Members of the sub-committee of the House Committee on the Judiciary who framed the original Clayton bill do not come from even

the commercial centers of the South. They are Clayton, of Eufaula, Ala.; Carlin, of Alexandria, Va.; Webb, of Shelby, N. C., and Floyd, of Yellville, Ark. Whoever heard of those places before?

What is the volume of business in Yellville and Eufaula? These are the kind of men who are continually making speeches about the "Criminal Trusts" and Wall Street, maintaining the while a dignified silence on any subject which could possibly offend the farmer vote. Is it any wonder they want to exempt farmers from the operation of a law which they should know is unfair to all business?

More business men should be elected to Congress. The business of the country wants it so; and Congress needs more of that kind of talent. Legislation of the day is business legislation; it is concerned with the regulation of property and of commerce by the Government, and business men should have a hand in framing it on the simple proposition upon which the nation was established, that "all just powers of government are derived from the consent of the governed." Constructive action in upbuilding commerce and industry is needed. Send business men to Congress.—"American Industries."

Your salesman would consider himself fortunate to get ONE TEN-MINUTE INTERVIEW with a busy architect IN THREE MONTHS. We REACH and TALK DIRECT to men of this calibre FIFTY-TWO WEEKS IN THE YEAR!

THE NEED OF GOOD GUTTERS.

Important Feature of Road Building if Permanent Highway is Desired.

The following address was delivered by T. Hugh Boorman, C. E., Highway Engineer, before the American Society of Engineers, Architects and Constructors, at the Brighton Beach Casino:

"The most important difference I found in my research work on pavements in England in 1911, between construction there and in the United States, was the matter of the construction of gutters. I called the attention of one of our New York City engineers to the question immediately on my return to this Empire City and was advised to bring the matter up before the Committee on Specifications for Streets, and I now ask this national society to appoint a committee to confer with committees of other engineering bodies to suggest and recommend suitable clauses in paving contract specifications to obtain improvements in this important detail of construction. Highway engineers and road specialists have always agreed that the prerequisite for a good pavement is proper drainage and a substantial foundation for the wearing surface, and it is now generally conceded that we must have a waterproof surfacing for even country roads.

Attention to Gutters.

"Given the fact that we are to roof our roads with waterproofing material, does it not follow that as on the building's roof, we

must pay the greatest attention to the gutter and afford the best method possible for the carrying off of the rain water to the outlets as efficiently and speedily as possible; does it not follow that we should apply similar precautions for road roofs?

"In the June 10, 1914, issue of 'Engineering and Contracting' (Chicago) is given the construction of concrete curb and gutter as adopted in Washington by the District Commissioners, whose work is now under the supervision of Captain Mark Brooke, Engineer Corps, U. S. A. This construction calls for an 8-inch curb and 24-inch gutter. The brick gutter calls for a width of 18 inches, and specifications for such material provide that:

"In laying the gutter as soon as practicable after the concrete base has been laid, a dry mixture of sand and cement is spread to a thickness of not less than 1/2 inch as a bed for the paving blocks. The blocks are laid on edge, joints being broken so that each block has at least a 4-inch lap in every course. A plank is laid over several courses and a rammer used until the blocks reach a firm bed and present a uniform surface. After ramming, the gutter is grouted with a thin, easy-flowing grout of neat cement.

Remedy for Defects.

"On examination of the concrete gutter on the Chevy Chase experimental road sections in Washington and Maryland last month, I found several cracks, and venture the opinion that a prepared asphalt joint applied across the work every twenty-five feet would obviate this trouble at a very trifling expense. The work referred to, however, is in connection with broad avenues and streets, having no business traffic, and what I wish to impress on this conference is the fact that in our city streets particularly, our construction of gutters is generally poor, from the fact that stone blocks are used transversely, instead of longitudinally; in old work such as one finds on Governor's Island, New York Harbor, it is seen that our army engineers laid granite blocks for the gutters parallel with the curb.

"In England the gutters are laid longitudinally generally in the case of stone or wood blocks, with the inner two lines depressed about half an inch, so forming a natural curved gutter.

"I have seen asphalt blocks on roads at Irvington, N. Y., so laid, and on the approaches to the North Philadelphia depot of the Pennsylvania Railroad, brick has been set in this way; on one side of the depot twelve courses of brick and on the other eight courses.

"I contend that in all cases where other than a monolithic sheet pavement is used the gutter should be paved with blocks, longitudinally laid, and with a natural curve."

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

SOME CONDENSED FACTS ABOUT PHILADELPHIA.

Founded by William Penn in 1682.
 Tax rate \$1 per hundred.
 Population nearly 1,800,000.
 Present area, 129 square miles.
 Largest park spaces in America.
 School tax 50 cents per hundred.
 Three hundred thousand wage-earners.
 Greatest municipal building in the world.
 Thirty-three miles of tidewater frontage.
 Three hundred and twenty thousand homes.
 Over twelve hundred miles of modern paving.
 Over eight thousand manufacturing establishments.
 Value of foreign maritime traffic over \$50,000,000 per year.
 One billion dollars' worth of goods manufactured every year.
 Value of real estate according to 1913 assessment, \$1,554,303,100.
 We lead in facilities for medical, dental, technical and art educations.
 Philadelphia's public schools are attended every day by 197,000 children.
 On an average of 7,500 dwelling houses are built in Philadelphia every year.
 Leader in ship and locomotive building, and in many special lines of industry.
 Nearly one thousand regular inward and outward bound passenger trains daily.
 Unequaled in advantages and facilities for traffic with all parts in the West and South.
 First American city in places of historical interest.
 Over 200,000 people in Philadelphia belong to building and loan associations, with assets of more than \$70,000,000.

MUCH FIRE LOSS PREVENTABLE.

In making his annual report for the fiscal year just closed, Fire Commissioner Charles H. Cole, of Boston, Mass., points out that 80 per cent. of the \$3,105,000 fire loss in that city last year was preventable. He refers to two causes of the preventable fire loss—lack of enforcement of existing laws owing to an unscientific scattering of authority through different boards and the inadequacy of the laws with respect to the material, construction and occupancy of buildings. He advises the centralization of all authority with respect to danger from fire under one department created for this purpose only and improvement in the laws dealing with construction, alteration and maintenance of buildings. He would permit the fining of the owners of buildings in which fires occur owing to defective chimneys and the punishment of persons who allowed fires to originate through carelessness as guilty of misdemeanor.

One of his recommendations is a special zone in the business district in which only construction of the first class should be allowed. Other suggestions are that no more wooden roofs or wooden coverings on roofs be allowed; that all buildings of five or more stories be of fireproof construction; that no building of any kind be nearer than 10 feet

to another unless all openings in the walls are suitably protected, and that no part of any third class building be nearer than 12 feet to the nearest part of another third class building.

ERECTING THE STEEL WORK OF THE NEW EQUITABLE BUILDING.

According to computations which have been made by experts, the new Equitable Building now in course of construction in lower Broadway, New York City, will when finished be the heaviest office structure in the world. The new building will be about 160x312 feet in plan and will rise to a height of about 500 feet above the street level. The lowest point will be 65 feet below the curb line, and while it is to be considered as a 36-story building, there will be intermediate floors at the third and thirty-fourth story levels which will make 38 floor levels.

The steel work of the building was erected to the second floor by six heavy steel guy derricks with 76 feet masts and 65 feet booms. The heaviest column erected weighed 32 tons. Above the second floor the heaviest member weighed about 16 tons and 15-ton derricks with 90 feet masts and 85 feet booms replaced the six just mentioned. The longer reach of the lighter derricks rendered them much more useful in handling material from the street.

The erection of the steel work was rendered unusually difficult by reason of extensive cross lot timber bracing which was designed to hold the basement retaining wall until sufficient steel work had been installed to take the load. It was necessary to set the derricks and with them erect the steel work for the three stories underground, all without damage to this extensive bracing.

After the steel work west of certain wall columns had been erected the derricks were used to erect the basement steel work eastward, drawing forward along the basement steel frame and erecting the steel work ahead, much after the movement followed in the use of a "traveler." In this way liability of accident to the cross-lot bracing was reduced and the expense of building supports for the derricks was eliminated.

"DICTATED BUT NOT READ."

Sending a "dictated but not read" letter is about on a par with sending a salesman to a customer with a note such as this: "This is our salesman all right, but we are not responsible for his representation of our goods."

The fellow who invented the "dictated but not read" stunt must have been a cheap mail order crook, who wanted to create the impression that he was very busy indeed.

It is a very bad example to follow. For the man who hasn't time to read his letters ought to have a capable assistant to dictate and read and sign his correspondence, or else he ought not to be in business.

The "dictated but not read" letter is a reflection upon the stenographer as well as

upon the office staff and the methods of the concern.

Moreover, it is an insult to the recipient. It is apt to convey to him the impression that this wasn't a very important letter, and that the sender didn't think enough of it to read it or see that it properly conveyed his message.

Still, some concerns do continue to send them out.—"Pacific Stationer."

NEWS NOTES.

Nicholas Serracino, architect, 1170 Broadway, New York, sailed July 1 for an extended trip to Europe. During his trip Mr. Serracino will make a study of European buildings both ancient and modern.

L. H. Shoemaker has recently been appointed division engineer of the Pittsburgh Division of the American Bridge Company, succeeding Richard Khuen, Jr., who has been transferred to the erecting department.

L. W. Leete, architect and engineer, has opened offices for the practice of his profession at 209 North Union street, Olean, N. Y., and desires catalogues and samples from manufacturers interested in the building trades.

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

DO IT NOW.

All we have is just this minute
Do It Now.

Find your duty and begin it
Do It Now.

Surely you're not always going
To be "a going to be," and knowing
You must sometime make a showing.
Do It Now.

Don't knock. Boost! Don't grouch. Smile!
Don't mope. Advertise!

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co.,
1713 Sansom st., Phila.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Fireproofing.

Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Hose and Fire Extinguishers.

Chas. Bond Co., 520 Arch st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

Chas. Bond Co., 520 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Painting.

R. J. Carrick, 2016 Ranstead St., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Rinald Bros., 1142 N. Hancock st., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Pipe Fittings and Valves.

Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts.

Preservatives (Wood and Concrete).

F. E. Sagendorph, 437 Chestnut st., Phila.

Radiators.

H. B. Smith Co., 1225 Arch st., Phila.

Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
William Thomson, 64-66 N. 2nd st., Phila.
Liberty Stove Co., 114 N. 2nd st., Phila.

Reinforcing Fabric.

Payne & Scammell, Land Title Bldg., Phila.

Refrigerators.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.

Roofing.

Benjamin Foster Co.,
22nd and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange.

Roofing Tile.

C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

The Fairbanks Co.,
7th and Arch sts.

Sanitary Flooring.

Embossed Wall Covering Co., 880 N. 48th st.

Sewer Pipe and Flue Linings.

C. F. Shellenberger, Builders' Exchange.

Sash Pulleys.

American Pulley Co.,
4200 Wissahickon ave., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Steel Ceilings.

The Sagendorph Co., Lafayette Bldg., Phila.

Structural Engineer.

Harry C. Eisenbise Co., Penna. Bldg., Phila.
Chas. H. Kohn & Co., Heed Bldg., Phila.

Terra Cotta (Architectural).

S. B. Dobbs, Bailey Bldg., Phila.
O. W. Ketcham, Builders' Exchange, Phila.

Test Borings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Tile and Terrazza Work.

Belfi Bros. & Co., 20-22 S. 19th st., Phila.

Wall Board—Compo.

Howard Ketcham, 3rd & Girard ave., Phila.

Waterproofing.

Benjamin Foster Co.,
22nd and Sedgley ave., Phila.
Ceresit Waterproofing Co.,
Westminster Bldg., Chicago
A. T. Schreiber, Agent,
1218 Chestnut st., Phila., Pa.
Standard Paint Co.,
100 William st., New York City.

Weather Strip (Metal).

Heaton & Wood, 1802 Chestnut st., Phila.
Diamond Flexible Metal Weather Strip Co.
Geo. R. C. Johnston, Drexel Bldg., Phila.
S. B. MacDowell & Son,
1927 Montgomery ave., Phila.

Window Screens.

S. B. MacDowell & Son,
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Federal Terra Cotta Company

Architectural Terra Cotta

Gray, Buff, and Red Shades in Vitreous Finish, Matt and Full Glaze in White, Cream, Polychrome and Granite Colors

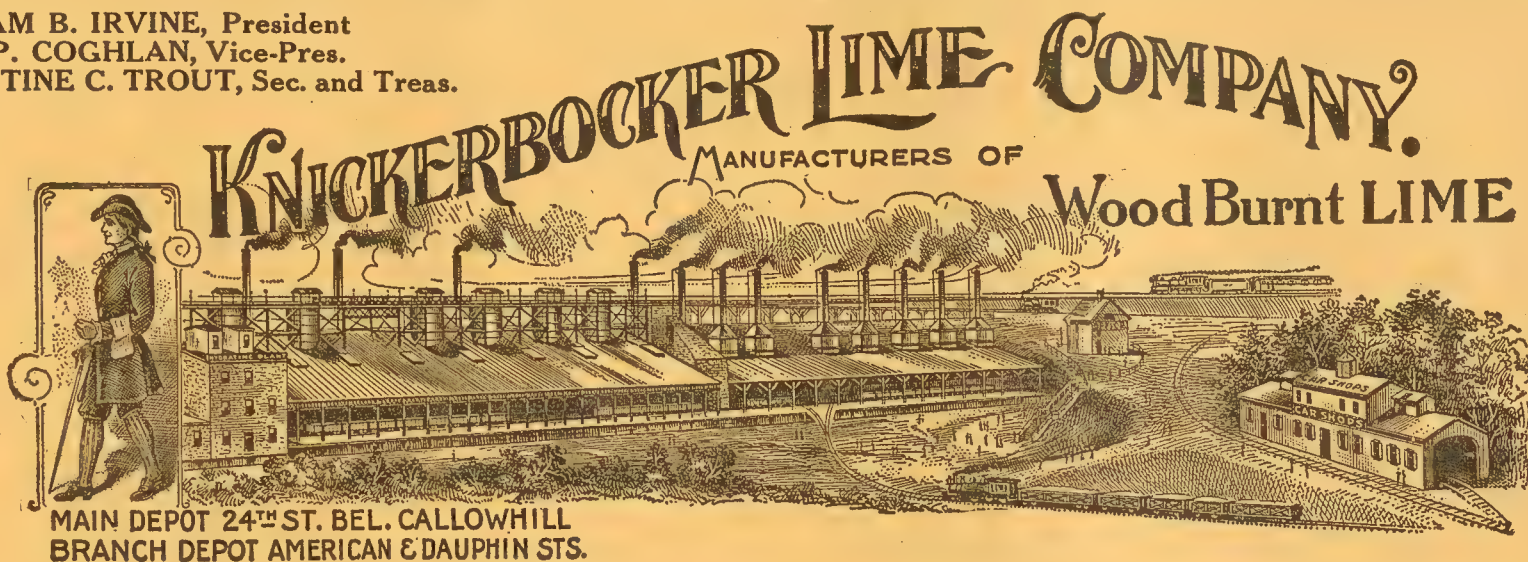
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Vol. XXIX., No. 29.

PHILADELPHIA, WEDNESDAY, JULY 22, 1914.

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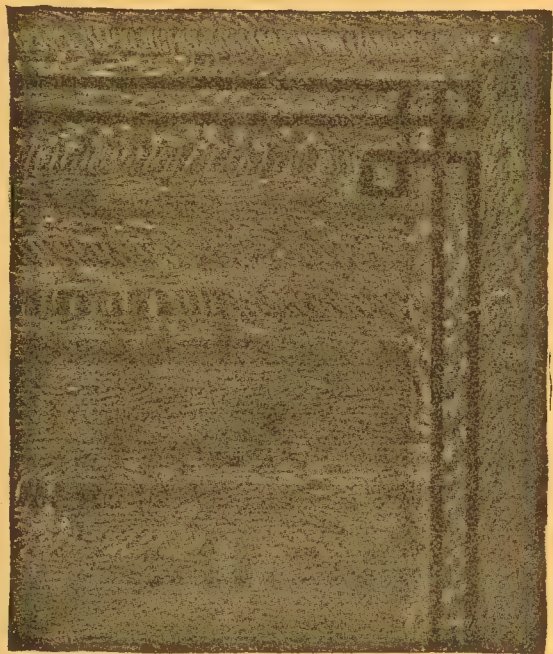
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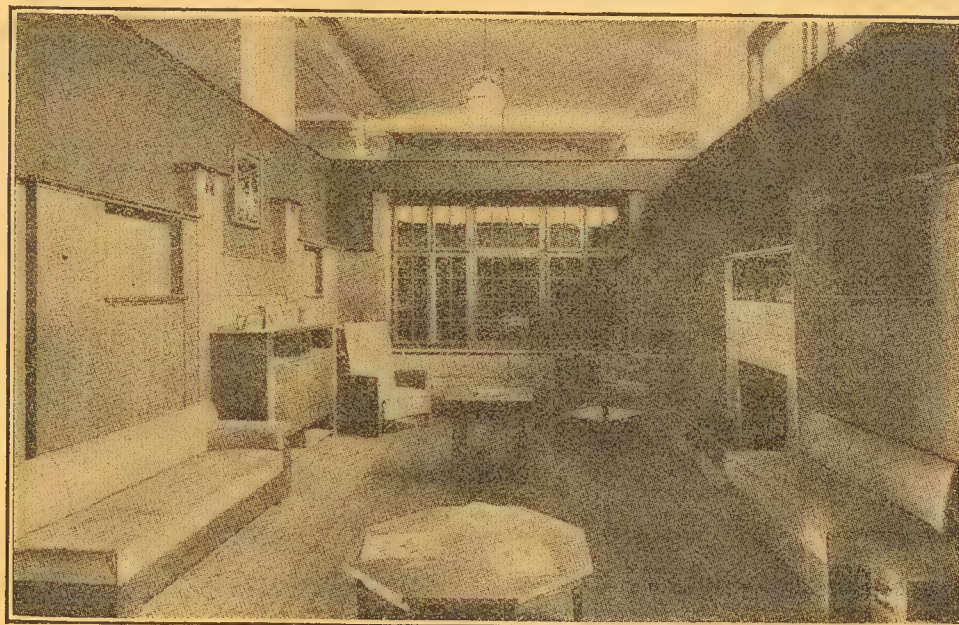
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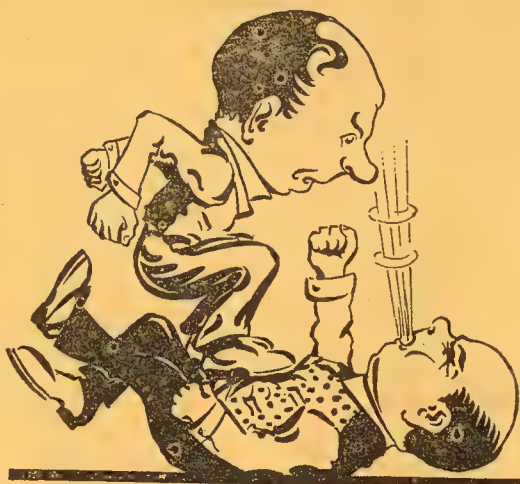
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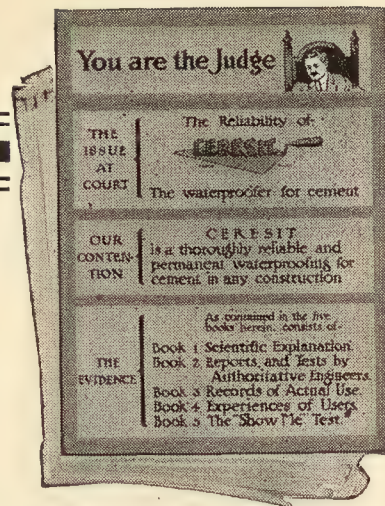
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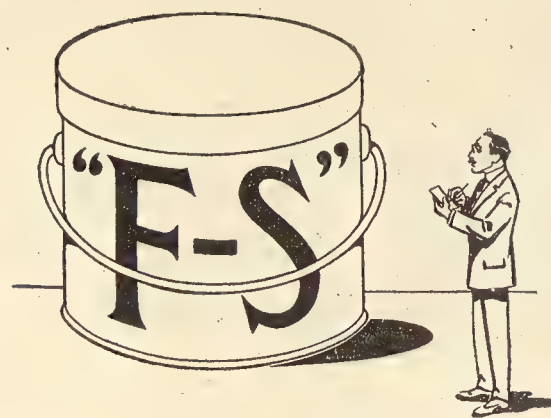
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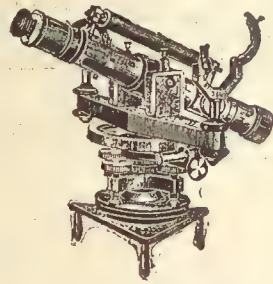
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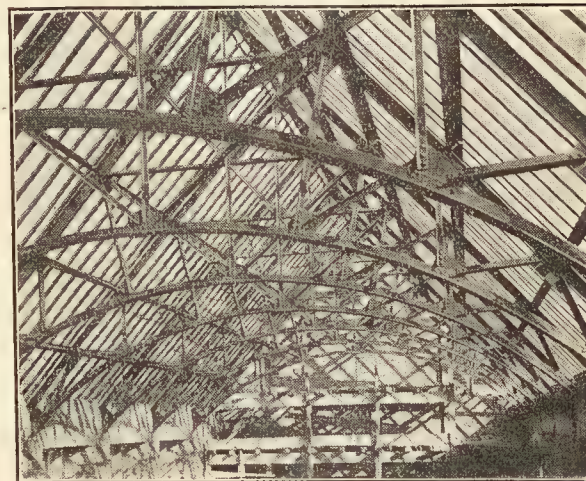
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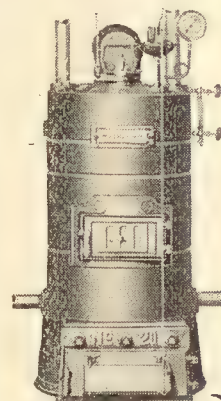


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PHILADELPHIA, WEDNESDAY, JULY 22, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Fraternity House, 3533-35 Locust street. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owner, Delta Tau Delta, care of John Costello, Chairman Building Committee, Commercial Trust Building. Brick, 3 stories and basement, 35x86 feet, slate and slag roof, vapor vacuum heating, electric lighting. Architect taking bids due July 22nd. In addition to those previously reported, Henry L. Brown, 1714 Sansom street, is figuring.

Mission House (alt. and add.), Eighth st. and Snyder ave. Architects, Brockie & Hastings, 1713 Sansom street. Owner, St. Martha's house, on premises. Brick, 3 stories. Consists of general alterations and addition. Architects taking bids due July 27th. Pomeroy Construction Co., 160 Ranstead street; George & Borst, 277 South Eleventh street; F. E. Wallace, 1210 Sansom street; Stacy Reeves & Sons, 2011 Market street; F. B. Davis, 240 South Sixteenth street; H. L. Brown, 1714 Sansom street, and Charles McCaul Co., 1713 Sansom street, are figuring.

Rectory, Twelfth and Spring Garden sts. Architect, Ed. F. Durang & Sons, Twelfth and Chestnut streets. Owner, Assumption R. C. Church, care of Rev. J. Smith, on premises. Brick and stone, 3 stories, 22x100 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Residence (alt.), 1913 Spruce street. Architect, E. H. Fetterolf, 1524 Chestnut street. Owner, Dr. George M. Piersol, 1913 Spruce st. Consists of interior alteration, electric light, hardwood floors. Architect taking bids due July 24th. A. R. Raff, 1635 Thompson street; H. H. Burrell, 1204 Chancellor street; A. Whitehead, Inc., 1624 Latimer street; H. E. Grau Co., 1707 Sansom street; Joseph R. Hazard, 2204 Manning street, are figuring.

Residences (13), Forty-first and Viola streets. Architects, B. J. Medoff & Sons, 524 Walnut street. Owner, Max Miron, Fourth and Wharton streets. Brick, 3 stories, 16x56 feet, slag roof, hot water heating, electric lighting. Owner taking sub-bids.

Theatre (alt. and add.), 5100 Germantown avenue. Architects, J. D. Allen Co., 908 Chestnut street. Owner, William Freihofer, Twentieth street and Indian avenue. Brick

and terra cotta, 1 story, 49x70 feet, slag roof (heating and lighting reserved). Architects have received bids.

Hospital (alt. and add.), Seventeenth and Vine streets. Architect, H. L. Reinhold, Jr., 1309 Walnut street. Owner, Charity Hospital, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting. Architect has received bids.

Alterations for Apartments, 1737 Mount Vernon street. Architect, H. L. Reinhold, 1309 Walnut street. Owner, Edward Hutchinson, 122 South Thirteenth st. Brick, 3 stories, slag roof, electric lighting (heat separate bids). Architect has received bids.

Boiler and Pump House, Girard College. Architect, J. T. Windrim, Commonwealth Building. Owner, Girard College, Eighteenth street and Girard avenue. Brick and iron, 2 stories, 40x50 feet, slag roof, safety treads, water-proofing. Builders, J. S. Cornell & Sons, Land Title Building, are taking sub-bids.

Sunday School, Forty-first street and Mantua avenue. Architects, Lachman & Murphy, Witherspoon Building. Owner, Calvary Evangelical Lutheran Church, care of Rev. J. M. Tweedale, 4110 Parkside avenue. Brick, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting. Architects have received bids.

Garage, Oak Lane, Phila. Architect, private plans. Owner, Leo Niessen, Twelfth and Race streets. Stone, 1½ stories, 24x25 feet, asbestos shingle roof, hot water heating, electric lighting. John Morrow Construction Co., 308 South Twelfth street, is taking sub-bids.

Residence, Fox Chase, Phila., \$7,000. Architect, Christian H. Fries, 8129 Pine road. Owner, Dr. John Sibbald, Second Street Pike, Fox Chase, Pa. Plaster, 1½ stories, 60x50 feet, shingle roof, hot water heating, electric lighting, composition floors. Architect taking bids due July 25th. The following are figuring: John Morrow Construction Co., 308 South Twelfth street; John F. Davies, Heed Building; Joseph Ashby, Second Street Pike; Daniel Nevling & Son, Fox Chase, Pa.; Thos. McVaugh, Second Street Pike; C. West & Co., Harrison and Horrocks streets; W. John Ste-

vens, Wyncote, Pa.; M. E. Hauser, Glenside, Pa.

Store (alt. and add.), 3924 Market street. Architects, Henon & Boyle, 10 South Eighteenth street. Owner, M. J. Callahan, on premises. Brick, 1 story, slag roof, hot water heating, electric lighting. Architects have received bids.

Residence (alt.), 151 Carpenter street, Gtn. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, Walter Lee Sheppherd, Commercial Building. Stone, 2½ stories, consists of interior alteration. Architects have received bids.

Residence (alt. and add.), 1729 South Eighth street. Architect, F. N. Greisler, Lafayette Building. Owner, Samuel Light, on premises. Brick, 2 stories, 16x50 feet, slag roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Store and Dwelling, 617 South Second st. Architect, F. N. Greisler, Lafayette Building. Owner, J. J. Cohn, 521 South Fifth street, Phila. Brick, 3 stories, 20x80 feet, slag roof, hot water heating, electric lighting, metal lath. Plans in progress. Bids in one week.

Residence (alt. and add.), 1507 Locust st. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Dr. Charles J. Jones, on premises. Brick, 4 stories, hot water heating, electric lighting; consists of interior alteration and addition. Architects taking revised bids due July 22nd. The following are figuring: F. E. Wallace, 1210 Sansom street; George & Borst, 277 South Eleventh street; William R. Dougherty, 1610 Sansom street; H. H. Burrell, 1202 Chancellor street, Phila.

Warehouse, 203-05 North Broad street. \$75,000. Architect, Charles E. Oelschlager, Harrison Building, Phila. Owner, name withheld. Brick, steel and concrete, fireproof, 6 stories, 40x100 feet, slag roof, steam heating, electric lighting, elevators, meal frames and sash, springlers. Architect taking bids due July 27th. The following are figuring: Cramp & Co., Denckla Building; Doyle & Co., 1519 Sansom street; Irwin & Leighton, 126 North Twelfth street; Isaac T. Shoemaker, 1309 Walnut street; Doak & Co., Crozer Building; H.

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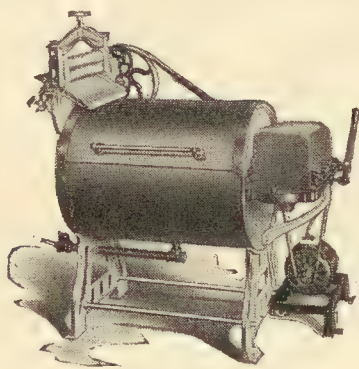
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Hall (alt. and add.), 808 Locust street. Architect, Clarence Gardner, 925 Chestnut st. Owner, Musical Fund Hall, 608 Locust street. Brick and concrete, 3 stories, steam heat, electric lighting, metal lath, water-proofing, metal ceilings, metal sash and frames. Architect received bids July 21st.

Covered Passage, Eighth and Spruce streets. \$6,000. Architect, Walter F. Price, 714 Walnut street. Owner, Pennsylvania Hospital, on premises. Brick and stone, 1 story, slag and tile roof, steam heating, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street.

Passenger Station (alt. and add.), North Philadelphia, \$80,000. Architect, William H. Cookman, Broad Street Station. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and terra cotta, 1 story, slag and tile roof, safety treads, electric lighting, steam heating, waterproofing. Owners taking bids, due August 4th. The following are figuring: Fidelity Const. Co., Heed Building; Irwin & Leighton, 126 North

Twelfth street; Roydhouse-Arey Co., Fidelity Building; Jacob Myers Sons Co., Witherspoon Building; Charles Gilpin, Harrison Building; F. A. Havens Co., 845 North Nineteenth street; H. H. Wehmeyer, 1004 West Lehigh avenue; Brann & Stuart Co., Commercial Trust Building, all of Philadelphia.

Club House (alt. and add.), 1312-14-16 North Broad street. Architect, Carl P. Berger, South Penn Square, Philadelphia. Owners, Loyal Order of Moose, No. 54, on premises. Brick and terra cotta, fireproof, 4 stories, 74x190 feet, slag and tin roof, steam heating, electric lighting, composition floors, metal lath, dampproofing. Architect taking bids, due August 7th. H. E. Baton, Twelfth and Sansom streets; Cramp & Co., Denckla Building; Burd P. Evans Co., Thirteenth and Wallace streets; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown street; A. R. Raff, 1635 Thompson street; Stacy Reeves & Sons, J. Richard Jackson, Perry Building, are figuring.

Church Building, Twenty-second and Moore streets. Architects, Milligan & Pierson, 520 Walnut street. Owners, Twenty-second Street M. E. Church, care of Dr. J. E. Gallagher, on premises. Brick and stone, 2 stories and basement, 42x125 feet, slate and slag roof (heating and lighting reserved). Architect taking revised bids, due July 25th. Smith-Hardican Co., 1606 Cherry street; T. C. Trafford, 1613 Sansom street; Specht & Sperry, Heed Building, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building, Hunting Park avenue and Aramingo street. \$35,000. Architect, private plans. Owners, John T. Lewis Co., Lafayette Building, Phila. Brick, 3 stories, 48x118 feet, slag roof, safety treads, water-proofing, metal lath. Contract awarded to Unit Construction Co., New Stock Exchange Building.

Club House (alt. and add.), 251-243 South

Camac street. Architects, Magaziner & Potter, 603 Chestnut street. Owners, Coin D'Or Club, care of Yarnall Abbott, Abbott Building. Brick, 3 stories, 29x66 feet, tile and slag roof, metal lath, metal sash and frames (heating and lighting reserved). Contract awarded to F. B. Davis, 240 North Sixteenth street.

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State Government, care of Col. George Montgomery, Frankford Arsenal. Brick, steel and concrete, 1 story, 48x199 feet, asbestos slate roof, composition floors, metal frames and sash. Lowest bid submitted by James Connor, 2848 Frankford avenue, \$26,750.

Boiler House, Frankford, Phila. Architect, Stewart A. Jellett, Franklin Bank Building. Owner, Miller Lock Co., 4523 Tacony street. Brick and concrete, 1 story, 34x44 feet, cement tile roof. Contract awarded to F. A. Havens Co., 845 North Nineteenth street.

Building (alt. and add.), Fifty-second and Sansom streets. Architects, private plans. Owner, C. O. Kruger, Real Estate Trust Building. Brick, 6 stories, consists of new bulk windows. Contract awarded to George Hogg, 1634 Sansom street.

Coal Trestle, Fourth street and Allegheny avenue. Architect, William Hunter, Reading Terminal. Owners, Philadelphia & Reading Railway Co., Reading Terminal. Concrete and steel, 300 feet, long, slag roof. Contract awarded to C. P. Bower, Nineteenth and Courtland streets.

Factory Building, Wayne Junction, Pa. \$5,000. Architect, Alexander M. Adams, 1012 Chestnut street. Owners, Wrigley Manufacturing Co., on premises. Brick, 1 story, 50x75 feet, slag roof (heating and lighting reserved). Contract awarded to Eli Frankenfield, Jenkintown, Pa.

Twin Residence, Washington lane and Limekiln Pike. \$5,000. Architect, A. R. Holland, 3922 Franklin street. Owner, Ontro Lehman, 3922 Franklin street. Brick, 2½ stories, 16x40 feet, slate roof, hot water heating, electric lighting. Contract awarded to L. D. Stites, 126 Herman street, Gtn.

Building (alt. and add.), 1529 North Sev-

enth street. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, Hebrew Education Society, Tenth and Carpenter streets. Brick, 4 stories, slag roof, hot air heating, electric lighting. Contract awarded to Harry Reusswick, 137 North Tenth street.

College Buildings (alt. and add.), Eighteenth street and Girard avenue. Architect, John T. Windrim, Twelfth and Chestnut sts. Owner, Girard College, on premises. Stone and brick, 2 stories, building No. 1 and playground. Contract awarded to F. W. Van Loon, Denckla Building.

Store Building, 15 South Sixth street. \$12,000. Architects, Hoffman & Co., Juniper and Market streets. Owner, Finance Co. of Pennsylvania, 1430 South Penn Square. Brick, 4 stories, consists of new front, electric lighting. Contract awarded to Lam Building Co., 1001 Wood street.

Piers (2), 38 and 40 South Wharves, Delaware River. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, Bourse Building. Brick, stone and concrete, 2 stories, 183x551 feet (slag roof, heating and lighting, rolling steel doors reserved), metal sash and frames, metal lath, safety treads. Lowest bid submitted by Snare & Triest, 204 South Delaware avenue, Philadelphia.

Apartment House, Thirty-ninth street, below Chestnut, \$35,000. Architect, Charles E. Oelschlager, Harrison Building. Owner, Chas. C. Evans, Thirty-ninth and Chestnut streets. Brick, marble trimmings, 4 stories, 84x100 feet, asbestos roof, vapor vacuum heating, electric lighting, hardwood floors, clothes driers. Contract awarded to Isaac F. Shoemaker, 1209 Walnut street.

PENNSYLVANIA

Construction News

Residences (22), Reading, Pa. \$77,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, William J. Mays, Jameson Place, Reading, Pa. Brick, 2½ stories, 14x60 feet each, slate roofs, hot air heating, gas and electric lighting. Owners are sub-letting all contracts.

Double Residence, West Wyomissing, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, William J. Mays, West Reading, Pa. Brick, 2½ stories, 28x40 feet, slate roof, hot air heating, electric lighting. Owner is sub-letting all contracts.

Church and Sunday School, Allentown, Pa. \$50,000. Architect, A. A. Ritcher, Sixth and Court street, Reading, Pa. Owner, St. James Reformed Church, Allentown, Pa. Stone, 1½

stories, 45x100 feet and 35x100 feet, slate roof, steam heating, metal lath. Plans in progress.

Residence (alt.), Reading, Pa. \$3,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa.

Owner, T. Deelman, 510 Greenwich street, Reading, Pa. Consists of new bay window and interior alterations. Plans in progress.

Fence, Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Reading High School Athletic Association, Reading, Pa. Concrete, 350x530 feet. Architect is taking bids.

Residence and Laundry (alt. and add.), Amble, Pa. Architect, Thomas B. Lippincott, Huntingdon Valley, Pa. Owner, John Cad-

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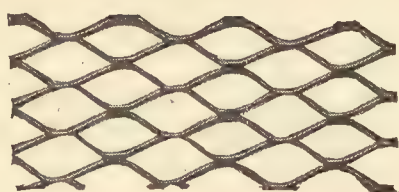
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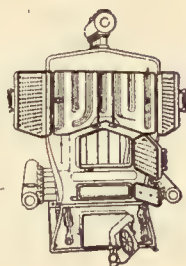
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walader, Jr., 263 South Fourth street, Phila. Brick and plaster, 3 stories, shingle and slag roof, canvas roof (heating and lighting reserved). Architect has received bids.

Garage (alt. and add.), Bryn Mawr, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Phila. Owner, S. W. Colton, Jr., Bryn Mawr, Pa. Stone and plaster, 1 1/2 stories, 20x25 feet, slate roof (heating and lighting reserved). Architect taking bids due July 26th. The following are figuring: H. H. Burrell, 1204 Chancellor street; F. L. Hoover & Sons, 1023 Cherry street; J. Sims Wilson, 1125 Brown street, of Phila.; J. D. Lengel, Wayne, Pa.; Stokes Bros., 6723 Musgrave st., Phila.; J. Morton Warner, Bryn Mawr, Pa.

Residence (alt. and add.), Haverford, Phila. Architects, Evans & Warner, Witherspoon Building, Phila.; Owner, Clarence A. Worden, Jr., Haverford, Pa. Stone, 2 1/2 stories, slate roof, steam heating, electric light, composition floors, metal lath, water-proofing. Architects have received bids.

Armory, Oil City, Pa. Architects, Emmett E. Bailey & Co., Oil City, Pa. Owner, tState of Pennsylvania, Armory Board, Harrisburg, Pa. Brick, sandstone trimmings, 2 stories, 93x88 feet, Bangor union slate and slag roof, steam heating, electric lightin, steel lockers. Owners have received bids.

Passenger Station, Elizabethtown, Pa. Architects, Zantinger, Borie & Medary, Fifteenth and Walnut streets, Phila. Owner, Pennsylvania Railroad Co., Broad Street Station. Stone, 1 story, 27x75 feet, slag and slate roof, steam heating electric lighting, metal lath, damp-proofing. Owners taking bids due July 30th. Roydhouse-Arey Co., Fidelity Building; J. Myers & Sons Co., Witherspoon Building; Fidelity Construction Co., Heed Building; John Goll & Co., 1539 Filbert street; F. L. Hoover & Sons, 1023 Cherry street; A. L. Carhart, Hale Building, all of Philadelphia, and Titzel Const. Co., Woolworth Building, Lancaster, Pa.; Stapf & Benfer, 38 South Seventeenth street, Harrisburg, Pa., are figuring.

Connecting Corridors, Spring City, Pa. Architect. Philip H. Johnson, Land Title Building, Phila. Owner, Pennsylvania State Hospital for Insane, Spring City, Pa. Brick, steel and concrete, 1 story, slate and slag roof (steam heating and electric lighting separate bids), metal lath. Owners taking bids due July 29th. Plans may be obtained from Architect upon a deposit of \$5.

Apartment (alt. and add.), Easton, Pa. Architect, Edward H. Wenzelberger, Easton, Pa. Owner, Simon Novick, 142 Northampton street, Easton, P. Bbrick, 4 stories, 30x100 feet, slag roof, hot watre heating, gas and electric lighting, tile work. Plans in progress.

Twin Bungalow, Easton, Pa. \$6,000 Architect, Edward H. Wenzelberger, Easton, Pa. Owners, Ralph Bros., 234 South Third street, Easton, Pa. Frame, 2 1/2 stories, 32x60 feet, slate roof, hot air heating, gas and electric lighting, tile work. Plans in progress.

Residence, Easton, Pa. \$30,000. Architect, William Michler, Easton, Pa. Owner, F. R.

Drake, Easton, Pa. Stone, 2 1/2 stories, 100x36 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath. Architect taking bids due July 23d. The following are figuring. A. A. Bechtel, William Snyder, A. Steinmetz, Ed. Pittinger, Smith & Son, all of Easton, Pa.

Residence, Haverford, Pa. \$10,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, name withheld. Stone, 2 1/2 stories, 19x41 feet, slate roof, hardwood floors (heating and lighting reserved). Architect taking bids due July 25th. A. Whitehead, 1624 Latimer street; A. L. Fretz & Sons, 1222 Chancellor street; H. E. Grau Co., 1707 Sansom street; James H. Wells, Heed Building, all of Phila.; Gray Bros., Rosemont, Pa.; W. H. Roberts, Newtown Square, Pa.; Wolf & Dilworth, Bryn Mawr, Pa., are figuring.

Residence (alt. and add.), Rosemont, Pa. Architect, John I. Bright, 1701 Chestnut st., Phila. Owner, Theodore L. Harrison, Rosemont, Pa. Stone and frame, 2 1/2 stories, shingle roof, electric lighting, hot air heating, hardwood floors. Architect taking bids due July 27th. The following are figuring: Charles Gilpin, Harrison Building, H. E. Baton, Twelfth and Sansom streets, of Phila.; J. J. Graham, Bryn Mawr, Pa.; J. D. Lengel, Wayne, Pa.; George Croll, Rosemont, Pa.

Residences (2), Bryn Mawr, Pa. \$8,000. Architect, M. Haupt, Drexel Building, Phila. Owner, M. Brown, 783 South Sixth st., Phila. Brick, 2 1/2 stories, 36x40 feet, slate roof, hot water heating, electric lighting. Owner taking bids.

School, Plymouth Meeting, Pa. \$27,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, I. Harold Shoemaker, Secretary, R. F. D. No. 2, Conshohocken, Pa. Brick, 2 stories, 50x90 feet, slag orof, electric lighting, metal lath, metal ceilings, slate blackboards (blower system of heating, plumbing and electric work separate bids). Owners taking bids due August 10th, 8 P. M. The following are figuring: J. B. Flounders, 1329 Arch street; F. T. Mercer Co., 1706 Delancey street, Phila.; S. M. Fesmire & Mitchell, Glenside, Pa.; Elmer O. Rehrer, Norristown, Pa.; William Little, Conshohocken, Pa.; Litghtkep & Fleck, Plymouth Meeting, Pa.; Culp & Staley, Plymouth Meeting, Pa.; F. Roe Searing, Perry Building, Phila.

School, Connoughton, Pa., \$5,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owners, Plymouth Township School Board, I. Harold Shoemaker, Secretary, R. F. D. No. 2, Conshohocken, Pa. Brick, 1 story, 40x60 feet, slag roof, metal ceilings, slate blackboards (hot air heating, separate bids). Owners taking bids due August 10th, 8 P. M. The following are figuring: J. B. Flounders, 1329 Arch street; F. T. Mercer Co., 1706 Delancey street; F. Roe Searing, Perry Building Phila.; S. M. Fesmire & Mitchell, Glenside, Pa.; Elmer O. Rehrer, Norristown, Pa.; Michael F. Lawler, Norristown, Pa.; Frank R.

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Heavner, Norristown, Pa.; William Litle, Conshohocken, Pa.; Lightkep & Fleck, Plymouth Meeting, Pa.; Culp & Staley, Plymouth Meeting, Pa.

Home (alt. and add.), Kennett Square, Pa. Architects, Heacock & Hokanson, Baily Building, Phila. Owner, Friends' Home, Kennett Square, Pa. Brick and plaster, 2½ stories, 34x65 feet, slate roof, electric lighting, tile floors (heating reserved). Architect taking bids due July 27th. The following are figuring: Owen Hoopes, William Worrell, Paul Hannum, all of Kennett Square, Pa.; Walter Thompson, Wilmington, Del.; Barclay White Co., Perry Building; J. B. Flounders, 1329 Arch street; R. C. Ballinger, 218 North Thirteenth street, all of Philadelphia, Pa.

Residence (alt. and add.), Dalesford, Pa. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, A. E. Newton, Dalesford, Pa. Concrete, 1 story, 18x25 feet, slate roof, electric lighting, hot water heating. Architects taking bids, due July 17th. The following are figuring: Barclay White, Perry Building; H. E. Baton, Twelfth and Sansom streets; H. H. Burrell, 1202 Chancellor street; P. Haibach Const. Co., Twenty-sixth and Thompson streets; Harrison C. Rea Co., 1027 Wood street, all of Philadelphia.

Residence, Cynwyd, Pa. Architect, J. C. Fernald, 5533 Wyalusing avenue. Owner, Charles Hartwig, 5133 Warren street. Stone, 2½ stories, 26x40 feet, slate roof, hot water heating, electric lighting, oak floors. Architect taking bids, due July 28th. Alfred James, Bala, Pa.; P. S. Davis, Bryn Mawr, Pa.; Mowrer Bros., Merion, Pa.; LeRoy K. Smith, Forty-first and Chester avenue, Philadelphia, are figuring.

Hall (add.), Ridley Park, Pa. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, Ridley Park Borough, care of W. K. Mitchell, Ridley Park, Pa. Brick, 2 stories, 17x27 feet, slate roof, steam heating, electric lighting. Owners taking bids, due August 3rd at 6 P. M. F. Roe Searing, Perry Building; F. L. Hoover & Sons, 1023 Cherry street; P. J. Hurley, 1233 Cherry street; Mitchell Bros., 2125 Race street; Pomeroy Const. Co., 1609 Ranstead street, all of Philadelphia, are figuring.

Sanitorium (alt. and add.), Cresson, Pa. Architect, George S. Welsh, Wilkes-Barre, Pa. Owners, State of Pennsylvania, Department of Health, care of Dr. S. G. Nixon, 1900 Race street, Philadelphia. Brick, 3 stories, asbestos roof, metal ceilings, kalamein doors and trimmings (steam heating, electric lighting separate bids). Consists of addition to the main building. Owners taking bids, due July 28th at 12 o'clock. Plans may be obtained from owners upon deposit of \$25.00. Edw. Fay & Sons, 2 South Mole street, are figuring.

Connecting Corridors, Spring City, Pa.

Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, Pennsylvania State Hospital for Insane, Spring City, Pa. Brick, steel and concrete, 1 story, slate and slag roof (steam heating and electric lighting separate bids), metal lath. Owners taking bids, due July 29th. Doyle & Co., 1519 Sansom street; J. G. Doak & Co., Crozer Building; Mitchell Bros., 2125 Race street; Fidelity Const. Co., Heed Building; F. H. Keiser, Pottstown, Pa., are figuring.

Gardener's Cottage, Camp Hill, Cumberland County, Pa. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Mrs. M. E. Olmsted, Harrisburg, Pa. Frame, 2½ stories, 22x40 feet, shingle roof, hot air heating. Plans in progress. Bids in a few days.

Station, Scranton, Pa. Architect, J. O. Osgood, 143 Liberty street, New York City. Owners, Central R. R. Co., of N. J., New York City. Brick and concrete, 3 stories, 46x52 feet, asbestos roof (heating reserved), electric lighting, metal lath, waterproofing, elevators, safety treads. Owners taking bids, due August 1st. Roydhouse-Arey Co., Fidelity Building, is figuring.

Parish House (add.), Lebanon, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building. Owners, St. Luke's Episcopal Church, Lebanon, Pa. Stone, 2 stories, 27x50 feet, slate roof (steam heating separate bid), electric lighting. Architects taking bids, due July 27th. Shenk Bros., J. H. Greiner, A. H. Whitmer and H. Buffamoyer, all of Lebanon, Pa.; Samuel Funk, Cleona, Pa., are figuring.

Twin Residence, Royersford, Pa., \$3,500. Architect, J. V. Poley, Royersford, Pa. Owner, Y. C. Freed, Royersford, Pa. Brick, 2½ stories, 32x42 feet, slate and tin roofs, steam heating, gas and electric lighting. Architect taking bids.

Residence and Garage, Reading, Pa. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, Robert Shofer, Reading, Pa. Frame, 2½ stories, 26x40 feet, shingle roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

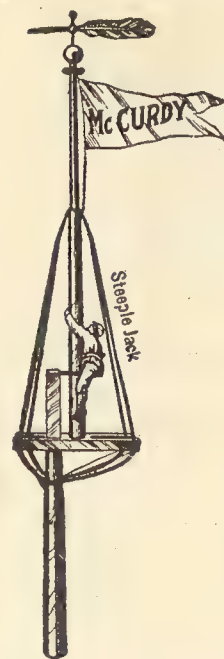
Church and Sunday School, Ephrata, Pa. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owners, Bethany Reformed Church, Ephrata, Pa. Brick, stone trimmings, 1 and 2 stories, 75x105 feet, slate roof, hot air heating, electric lighting. Architects taking bids, due August 1st. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; James H. Wells, Heed Building; James G. Doak & Co., Crozer Building; Milton W. Young, Overbrook, all of Philadelphia; Beard Construction Company, Colonial Trust Building, Reading, Pa.; Harvey Hahn, Ephrata, Pa.; Harry Gerhart, Ephrata, Pa.

PENNSYLVANIA

Contracts Awarded

School, Sixth and Walnut sts., Darby, Pa. \$31,000. Architects, Folsom & Stanton, 1433

Chestnut street, Phila. Owner, School Board, William E. Buckman, Secretary, Darby, Pa.



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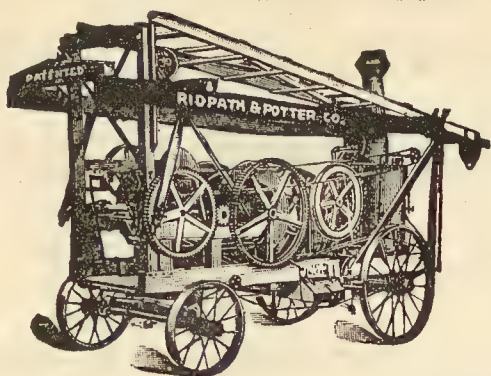
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Philadelphia, Penna.

Stone and terra cotta trimmings, 2 stories, 91x65 feet, Emack's slate roof, reinforced concrete and hollow tile fire-proofing, safety treads, metal lath (heating and electric work separate bids, (blackboards reserved). Contract awarded to Henry L. Brown, 1714 Sansom street, Phila.

School, Tenth street and Ridge avenue, Darby, Pa. \$21,000. Architects, Folsom & Stanton, 1433 Chestnut street, Phila. Owner, School Board, William E. Buckman, Secretary, Darby, Pa. Sayre & Fisher, brick and terra cotta trimmings, 2 stories, 40x62 feet, slag roof, concrete and hollow tile fire-proofing, safety treads, metal lath (heating and electric work separate bids), (blackboards reserved). Contract awarded to Henry L. Brown, 1714 Sansom street, Phila.

Church (add.), Wayne, Pa. Architects, Boyd, Coneys & Abel, Fifteenth and Walnut streets, Phila. Owner, Radnor Presbyterian Church, Wayne, Pa. Stone and shingle, 1 story, 34x56 feet, shingle roof (heating and electric lighting separate bids). Contract awarded to J. D. Lengel, Wayne, Pa.

Squash Court (add.), Cynwyd, Pa. Architect, Louis C. Baker, 34 South Seventeenth street, Phila. Owner, The Cynwyd Club, Cynwyd, Pa. Hollow tile and plaster, 1 story, 20x40 feet, slag roof, steam heating. Contract awarded to James H. Wells, Heed Building, Phila.

School, Mountainville, Pa. \$19,200. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, School Board, Mountainville, Pa. Brick, stone trimmings, 2 stories, 87x87 feet, slag roof, steam heating, electric lighting, slate blackboards. Contract awarded to Marcus Reinhart, Emaus, Pa.

Residence, Bethlehem, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Frank F. Heffelfinger, care of C. R. R. of N. J., Bethlehem, Pa. Brick and stone trimmings, 1½ stories, 40x40 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to H. E. Stoudt, Bethlehem, Pa.

Farm Building, Broomall, Pa. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Phila. Owner, Norman Cantrell, Broomall, Pa. Frame, 1 story, 21x102 feet and 23x62 feet, shingle roof. Contract awarded to W. Harry Roberts, Newtown Square, Pa.

Church and Sunday School, Mt. Carmel, Pa. \$40,000. Architect, A. A. Ritcher, Sixth and

Court streets, Reading, Pa. Owner, Mt. Carmel M. E. Church, Mt. Carmel, Pa. Brick and stone, 1 story, 60x120 feet, slate roof, steam heating, gas and electric lighting, maple floors. Contract awarded to George H. Keefer, Mt. Carmel, Pa.

Residence, Glenside, Pa. Architect, J. B. Chamberlain, Hazleton, Pa. Owner, S. C. Keith, Woodstown, N. J. Stone, 2½ stories, 28x35 feet, slate roof, hot water heating, electric lighting. Contract awarded to Henry Specht, Jr., Willow Grove, Pa.

School (add.), Collegeville, Pa. Architect, George E. Savage, Witherspoon Building Phila. Owner, Board of Education, care D. H. Martman, Collegeville, Pa. Brick, stone trimmings, 2 stories, 40x80 feet, slate roof, slate blackboards. George J. Hallman, St. Clair, Pa., submitted the lowest bid and will be awarded the contract.

Farm Building (alt. and add.), Elizabethtown, Pa. Architects, H. G. Carson and H. L. McLimans, 205 South Forty-second street, Phila. Owner, Masonic Home, Elizabethtown, Pa. Frame, 1 and 2 stories, shingle roof. Contract awarded to George Carson, 205 South Forty-second street, Phila.

Residence, Phoenixville, Pa., \$3,000. Architect, J. V. Poley, Royersford, Pa. Owner, Dr. Frank Falls, Phoenixville, Pa. Brick and frame, 2½ stories, 18x40 feet, shingle roof, steam heating, gas and electric lighting. Contract awarded to Frank Huber, Parkerford, Pa.

School (alt. and add.), Willow Grove, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, electric lighting, slate blackboards. Contract awarded to H. Murphy, Willow Grove, Pa.

School (alt. and add.), Weldon, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, slate roof, electric lighting, slate blackboards. Contract awarded to M. E. Hauser, Glenside, Pa.

School (alt. and add.), Abington, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Abington Township School Board, Abington, Pa. Stone, 2 stories, 86x57 feet, slate roof, electric lighting, slate blackboards. Contract awarded to M. E. Hauser, Glenside, Pa.

damp-proofing, slate blackboards. Revised plans completed. Not decided when bids will be taken.

School, Pleasantville, N. J. Architect, J. V. Mathis, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Pleasantville, N. J. Brick, 2 stories, 30x75 feet, slag roof, damp-proofing, electric lighting. Revised plans completed. Not decided when bids will be taken.

Residence (alt.), Bridgeton, N. J. \$3,000. Architects, Custer & Seltzer, 302 Market st., Camden, N. J. Owner, name withheld. Frame, 2½ stories, slate roof, extension to heating system, hardwood floors, electric lighting. Plans in progress. Architects will take bids in one week.

Apartment Houses (2), Atlantic City, N. J. \$30,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Isaac Aaron, 271 South Connecticut avenue, Atlantic City, N. J. Brick and concrete, 3 stories, 25x75 feet each, slag roof, hot water heating, gas and electric lighting, tile work, metal lath. Architect taking bids due July 29th. The following are figuring: Charles S. Corson, 1318 Atlantic avenue, Atlantic City, N. J.; E. Ellsworth Smith, 2809 Fairmount avenue; H. G. Scull, Sheen Building, Atlantic City, N. J.

Residence (completion), Haddonfield, N. J. Architects, Simon & Bassett, 1112 Chestnut street, Phila. Owner, Lawrence Appleton, Haddonfield, N. J. Stone, and frame, 2½ stories, 30x70 feet, shingle roof, hot air heating, electric lighting. Bids on completion have been received.

Signal Tower, Belle Meade, N. J. Architect, William Hunter, Reading Terminal, Phila. Owner, Philadelphia & Reading Railway Co., Twelfth and Market streets. Brick, 2 stories, 15x31 feet, asbestos shingle roof, hot air heating (lighting reserved). Owners taking bids due July 22nd. The following are figuring, in addition to those previously reported: Charles McCaul Co., 1713 Sansom street; Armstrong & Latta, Land Title Building; J. E. & A. L. Pennock, Land Title Building; J. Sims Wilson, 1125 Brown street; F. A. Havens & Co., 845 North Nineteenth street; James G. Doak & Co., Crozer Building.

Shipping Building, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Phila. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 6 stories, 141x273 feet, slag roof, steam heating, electric lighting, metal lath, water-proofing and damp-proofing, metal sash and frames, safety treads, elevator. Architects taking bids due July 28th. The following are figuring: Turner Concrete Steel Co., 1713 Sansom street; Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; P. Haibach Construction Co., Twenty-sixth and Thompson streets, all of Phila.; Fred. T. Ley Co., 30 East Forty-second street, New York City.

Residence, Trenton, N. J., \$7,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Ellwood Ivins, 19 River Drive avenue, Trenton, N. J. Brick, 2½ stories, 31x38 feet, slate roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Residence (alt. and add.), Burlington, N. J. Architect, H. A. Brown, Beverly, N. J. Owner, Reginald Branch, Burlington, N. J. Frame, 2½ stories, shingle roof. Architect taking bids; due July 24th. The following are figuring: J. E. Kolster, Beverly, N. J.; J. J. Norcross, Burlington, N. J.

Twin Residence, Trenton, N. J., \$9,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. W. Slack, American Mechanics' Building, Trenton, N. J. Brick, 2½ stories, 36x42 feet, slate roof (heating reserved), gas and electric lighting, hardwood floors, tile work. Architects taking bids. The following are figuring: T. F. Donigan, 153 Hamilton avenue;

NEW JERSEY

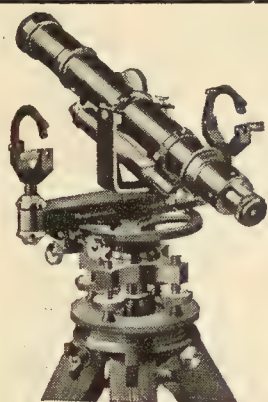
Construction News

Synagogue, Bridgeton, N. J. Architect, LeRoy B. Rothschild, Bulletin Building, Philadelphia. Owners, North Laurel Street Congregation, Bridgeton, N. J. Brick and terra cotta, 2 stories, 45x80 feet, slate roof, steam heating, electric lighting. Plans in progress. Architect will take bids in three weeks.

Store (alt. and add.), Atlantic City, N. J. \$4,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J.

Owner, Joseph Swartz, 714 Atlantic avenue, Atlantic City, N. J. Brick, stone trimmings, 2 stories, 40x75 feet, slag roof, electric lighting, composition boors. Plans in progress. Architect will take bids in one week.

High School, Pleasantville, N. J. Architect, S. Hudson Vaughn, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Pleasantville, N. J. Brick, 2 stories, 54x75 feet, slag roof, electric lighting, metal lath,



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PHILADELPHIA

ed. LaRue, 53 South Hermitage street, Trenton, N. J.

Residence (alts.), Orange, N. J. Architect, Frank Seeburger, Pennsylvania Building, Phil-

adelphia. Owner, Thomas A. Edison, Orange, N. J. Consists of new concert hall, indirect lighting system, hardwood floors, decorating, etc. Plans in progress.

NEW JERSEY

Contracts Awarded

Hotel (add.), Atlantic City, N. J., \$1,500,000. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, Hotel Traymore Company, Atlantic City, N. J. Brick, steel and terra cotta and concrete, fireproof, 15 stories, tile and slag roof, electric lighting, steam heating, oak and composition floors, metal sash and frames, casement windows, metal lath, 11 elevators, waterproofing and dampproofing. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

School, Roebling, N. J. Architects, Klee-man & Fowler, First National Bank Building, Trenton, N. J. Owners, Board of Education, care of Thomas F. Watson, Secretary, Roebling, N. J. Brick and concrete, 2 stories and basement, 78x165 feet, slag roof, steam or warm air heating, electric lighting, metal doors and frames, safety treads, metal lath, dampproofing. Berry-Goodwin Co., Drexel Building, Philadelphia, submitted the lowest bid, \$60,540.

School, Merchantville, N. J., \$43,248. Architect, H. A. Macomb, 214 South Seventh street, Philadelphia. Owners, Board of Education, Merchantville, N. J. Brick, stone trimmings, 2 stories, 48x182 feet, slag roof, fan system of heating, electric lighting, safety treads, metal lath, concrete floors. Contract awarded to George W. Shaner, Palmyra, N. J.

Residence, Bridgeton, N. J., \$10,000. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owner, Howard W. Fithian, Bridgeton, N. J. Hollow tile and stucco, 2½ stories, 58x40 feet, tile or slate roof, vacuum heating, gas and electric lighting, tile work, hardwood floors. Contract awarded to Mayer & Bro., Bridgeton, N. J.

Residence, Bridgeton, N. J., \$3,500. Archi-

tecs., Custer & Seltzer, 302 Market street Camden, N. J. Owner, Eugene L. R. Laning, Bridgeton, N. J. Hollow tile and stucco, 2 stories, 28x30 feet, shingle roof, hot air heating, gas and electric lighting. Contract awarded to Bateman & Miller Co., Bridgeton, N. J.

Bungalow, Ventnor, N. J., \$4,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Bartholomew Donovan, 206 North Missouri avenue, Atlantic City, N. J. Frame, 1½ stories, 26x42 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to Charles S. Corson, 1318 Atlantic avenue, Atlantic City, N. J.

School (alt. and add.), Bordentown, N. J. Architect, Oliver R. Parry, 1727 Chestnut st. Owner, Bordentown Military Academy, Bordentown, N. J. Brick, 2 stories, consists of interior alteration and addition, metal lath, composition floors, electric lighting (heating reserved). Contract awarded to E. B. Tautman, Bordentown, N. J.

Church, Monmouth Junction, N. J., \$20,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, St. Cecilia's R. C. Church, Rev. P. J. Quinn, East Millstone, N. J. Stone, 1 story, 38x68 feet, slate roof (heating and electric work reserved). Contract awarded to Joseph Turton, Monmouth Junction, N. J.

Restaurant (alts.), Trenton, N. J., \$3,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, Charles Hildebrecht, 18 West State street, Trenton, N. J. Brick, 3 stories, 25x25 feet, tin roof, electric lighting, hardwood floors, tile work. Contract awarded to Stephen Diekneit, 440 West Hanover street, Trenton, N. J.

MARYLAND

Construction News

Residence, Buxton, Md., \$25,000. Architect, Lawrence Hall Fowler, 347 North Charles street, Baltimore, Md. Owner, John DeFord, Baltimore, Md. Brick, 2½ stories, 120x30 feet, slate roof, electric lighting, hardwood floors, tile work, heating not decided. Plans in progress. Architect will take bids in 3 weeks.

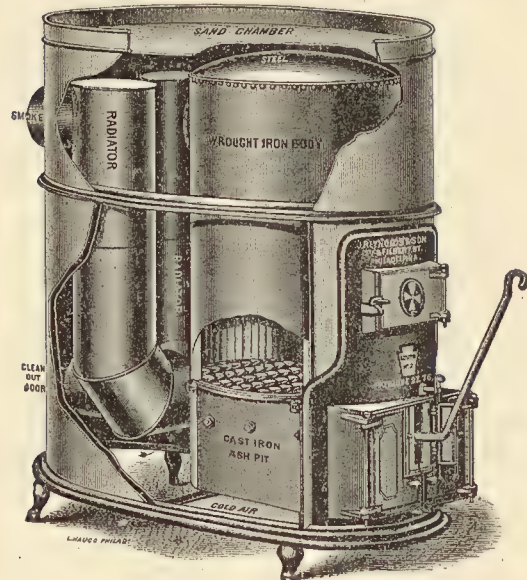
School Building (alt. and add.), Clifton avenue and Gorswich street, Baltimore, Md. Architects, Smith & May, Law Building, Baltimore, Md. Owners, Board of Education, City Hall, Baltimore, Md. Brick, stone trimmings,

2 stories, fireproof, slag roof, hot water heating, electric lighting. Plans in progress. Owners will take bids in about 3 weeks.

School Building, Ocean City, Md., \$23,000. Architect, Theodore Wells Pietsch, American Building, Baltimore, Md. Owners, School Board, Ocean City, Md. Brick, stone trimmings, 2 stories, 76x76 feet, slate and slag roof, electric lighting, slate blackboards. Plans in progress. Owners and architect will be ready for bids August 15th.

Asylum (add.), Raynor and Dukeland streets, Baltimore, Md. Architect, Benjamin

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Frank, 328 North Charles street, Baltimore. Owners, Hebrew Orphan Asylum, on premises. Brick, concrete floors, 2 stories, 20x40 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing and waterproofing, hollow tile. Architect taking bids, due July 24th. The following are figuring: Walter E. Burnham, Law Building; Monmonier & Sorrell, Blake & Engle, Milton C. Davis, Fidelity Construction Co., John Hiltz & Sons, all of Baltimore, Md.

Residence, Ten Hills, Md., \$12,000. Architects, Smith & May, Law Building, Baltimore, Md. Owner, E. S. Stockbridge, Balti-

more, Md. Brick, 2½ stories, slate roof, hot water heating, electric lighting. Architects taking bids, due July 25th. The following are figuring: C. C. Watts, J. Henry Smith, Walter E. Burnham, Charles Leimbach, Walter Torell, all of Baltimore, Md.

Warehouse, Fawn and President streets, Baltimore, Md. Architects, Haskell & Barnes, 301 North Charles street, Baltimore. Owners, Stewart, Knatz & Co., 903 South Carolina street, Baltimore. Brick, 4 stories, 52x100 feet, slag roof. Architects taking bids, due July 24th. The following are figuring: B. F. Bennett, 123 South Howard street; Edw. Watters & Co., 509 North Charles street; Walter E. Burnham, Law Building; P. J. Cushing, J. H. Smith, Steinfeld & Co., all of Baltimore.

Church, Baltimore, Md., \$40,000. Architects, Haskell & Barnes, 301 North Charles street. Owners, Trinity English Lutheran Church, Baltimore, Md. Stone, 1 story, 73x120 feet, slate roof, steam heating, electric lighting. Architects taking bids, due July 23rd. The following are figuring: B. F. Bennett, 123 South Howard street; Walter E. Burnham, Law Building; M. C. Davis, 15 East Fayette street; Steinfeld & Co., Pearson & Son, A. Knell, Jr., P. J. Cushing, J. H. Smith, Thomas L. Jones & Sons, all of Baltimore.

Miscellaneous Construction News

Theatre, Hagerstown, Md. Architect, T. W. Lamb, 644 Eighth avenue, New York City. Owner, Potomac Real Estate Co., Hagerstown, Md. Brick and concrete, 1 story, 70x240 feet, slag roof, steam heating, electric lighting, metal lath, kalamein work. Architect taking bids due July 27th. Irwin & Leighton, 126 North Twelfth street, Phila., are figuring.

Car Shops (5), Memphis, Tenn. Architect, private plans. Owner, Southern Railway Co., Washington, D. C. Brick and frame, 1 story, 42x120 feet, 38x52 feet, 40x366 feet, 22x33 feet, 24x90 feet, slag and asbestos roofs, metal sash and frames, damp-proofing (heating and lighting reserved). Owners taking bids due August 1st. Roydhouse-Arey Co., Fidelity Building, Phila., are figuring.

Theatre and Stores, Youngstown, O. Architects, Knox & Elliott, Cleveland, O. Owners, Brown-Lee Realty Co., Youngstown, O. Brick and terra cotta, fireproof, 1 story, 150x165 feet, slag roof, metal lath, metal sash and frames, water-proofing (heating and lighting reserved). Architect taking bids due July 24th. James H. Wells, Heed Building, Phila., is figuring.

School, Cleveland, O. Architect, private plans. Owner, Board of Education, Cleveland, O. Brick, stone, concrete and steel, fireproof, 2 stories, 384x188 feet, composition roof, electric lighting, metal lath and furring, cast iron stair treads, water-proofing and damp-proofing, slate blackboards. Owners taking bids due August 1st. James H. Wells, Heed Building, Phila., is figuring.

Court House, Cincinnati, O. \$2,500,000. Architects, Rankin, Kellogg & Crane, 1012 1012 Walnut street, Phila. Owner, City of Cincinnati, Court House Commission. Stone, 6 stories, 293x260 feet. Owner taking bids due September 1st. \$10 payment required for plans. Certified check for \$250 required until plans are returned.

Factory (add.), Wilmington, Del. Architect, private plans. Owners, J. E. Rhoads & Sons, 12 North Third street, Phila. Brick, 49x51 feet; consists of additional story, slag roof heating and elevator reserved). Owners taking bids due July 23rd. Abel Bottoms & Sons

Maryland

Contracts Awarded

Machine Shop, Baltimore, Md., \$125,000. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore. Owners, Crown Cork and Seal Company, Baltimore, Md. Brick, steel and concrete, 3 stories, 170x210 feet, slag roof, safety treads, steel rolling doors, electric lighting. Contract awarded to West Construction Company, Knickerbocker Building, Baltimore, Md.

Residence, Cedar Croft, Md., \$7,500. Architect, Bayard Turnbull, 328 North Charles street, Baltimore, Md. Owner, C. B. Turnbull, care of architect. Frame, 2½ stories, 27x46 feet, shingle roof, hot air heating, electric lighting. Contract awarded to Raymond E. Chambers, Woodbury, Baltimore, Md.

Store Building (alts.), 322 East Baltimore street, Baltimore, Md. Architect, Herbert G. Jory, Munsey Building, Baltimore, Md. Owner, Joseph Castelberg, on premises. Consists of new bulk windows and store fixtures, electric lighting. Contract awarded to Singer-Pentz Co., Equitable Building, Baltimore, Md.

Co., 41 South Fifteenth street, Phila., are figuring.

Garage (add.), Wilmington, Del. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Hansen Auto Co., 1021 Gilpin street, Wilmington, Del. Brick, 2 stories, 20x40 feet; slag roof, steam heating, electric lighting, concrete floors. Architect taking bids due July 22nd. The following are figuring: Harry S. Lynch, 715 Tatnall street; Egbert Nutter, 6 West Thirtieth street; H. H. Lue, Concord, Wilmington; Alfred Downward, 809 Tatnall street; C. H. Tindall & Son, 614 Tatnall street; C. J. Dougherty, 1809 Lincoln street, all of Wilmington, Del.

Store (alt.), Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Pyle & Co., 619 Market street, Wilmington, Del. Limestone, 2 stories, slag roof, gas and electric lighting, composition floors. Architects taking bids due July 24th. The following are figuring: J. E. Healy & Son, 707 Tatnall street; W. D. Haddock & Co., 804 Orange street; H. P. Carlon, 2430 West Eighteenth street; Charles H. Tindall & Son, 614 Tatnall street, all of Wilmington, Del.

Court House and City Hall, Wilmington, Del., \$1,200,000. Architects (associated), John D. Thompson, Jr., Ford Building, Wilmington, Del., and Palmer, Hornbostel & Jones, 63 William street, New York City. Owners, Wilmington and Newcastle County Building Commission, Thomas F. Gormley, Secretary, Church Building, Wilmington, Del. Stone and steel, fireproof, 3 and 5 stories. Plans completed. Owners will advertise for bids in a few days.

Car Shops (5), Memphis, Tenn. Architect, private plans. Owners, Southern Railway, Washington, D. C. Brick and frame, 1 story, 42x120 feet, 38x52 feet, 40x366 feet, 22x33 feet, 24x90 feet, slag and asbestos roofs, metal sash and frames, damp-proofing (heating and lighting reserved). Owners taking bids, due August 1st. Roydhouse-Arey Co., Fidelity Building; W. W. Lindsay & Co., Harrison Building, both of Philadelphia; Consolidated Eng. Co., Baltimore, Md.; Cauldwell-Wingate

Co., Atlanta, Ga.; T. S. Moudy & Co., Chattanooga, Tenn.; The Arnold Co., Chicago, Ill.; Ragland-Baxter-Morford Co., Nashville, Tenn.; E. W. Parker, Tampa, Fla.; T. S. Leake & Co., Chicago, Ill., are figuring.

Court House, Cincinnati, Ohio, \$2,500,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, Hamilton County Court House, Cincinnati, Ohio. Brick, stone, steel and concrete, 5 stories, 260x292 feet, slag and tile roof, tile floors, metal lath, waterproofing and damp-proofing, safety treads, metal casements, metal frames and sash (heating and lighting reserved). Owners taking bids, due September 1st. Chas. McCaul Co., 1713 Sansom street; James G. Doak & Co., Crozer Building; Cramp & Co., all of Philadelphia; George A. Fuller Co., 111 Broadway, New York City; John Gill & Sons Co., Citizens' Building, Cleveland, Ohio, are figuring.

Miscellaneous Contracts Awarded

Factory (add.), Wilmington, Del., \$12,000. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owners, John Hand & Sons Co., 1402 Walnut street, Wilmington. Brick, 1 story, 45x59 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Residences (2), Wilmington, Del., \$7,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John S. Mullin, Sixth and Market streets, Wilmington, Del. Brick, 3 stories, 16x50 feet each, slate and slag roofs, steam heating, gas and electric lighting, tile work, waterproofing. Contract awarded to Joseph Morgan, Church Building, Wilmington.

ARCHITECTS DO CROSS THE ALLEGHENIES GOING EAST.

"Do architects of taste cross the Alleghenies?" asks the "San Francisco Architect and Engineer." Yes, they do—going east. Cass Gilbert, for instance, who went from St. Paul to New York and showed the people there the last word in tall building architecture. D. H. Burnham remained a resident of Chicago and purchased a White City, a revelation of architectural beauty which brought millions over the Allegheny mountains, westward, to see what the east had never equaled. Mr. Burnham frequently crossed the Alleghenys, going east, and returned west, satisfied to remain there. Some months ago the "Improvement Bulletin" reprinted from the "Architect and Engineer" a number of illustrations showing the beauty and originality of architecture in the far west, and particularly near the Golden Gate. The best taste comes from inborn graceful feeling, from talent; and that talent may appear anywhere. The west may send east another Gilbert and it may furnish another Burnham his great opportunity. Architects of taste will flock across the Alleghenys whenever the coupon-clippers cease to affect the east and appear in large numbers to the westward.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

A. Zaskielewing (O), 2645 East Ontario st. Claus & Beinke (C), 3414 Melvale street. Cost, \$3,600. Two stores and dwellings, brick, 2 stories, 16x54 feet, Ontario and Salmon sts.

American Oncologic Hospital (O), Thirty-third street and Powelton avenue. F. E. Wallace (C), 1210 Sansom street. Cost, \$19,000. Hospital, brick, 2 stories, 44x48 feet, Thirty-third street and Powelton avenue.

Board of Education (O), City Hall. Abel Bottoms & Sons Co. (C), 41 South Fifteenth street. Cost, \$40,000. School, brick, 2 stories, 34x45 feet, Forty-ninth and Parrish streets.

J. A. Kean (O), 610 Betz Building. Cost, \$15,000. Four dwellings, brick, 2 stories, 16x50 feet, Washington lane and Germantown avenue.

S. Wilinsky (O), 816 Reed street. Leslie M. Shestack (C), 322 Dickinson street. Cost, \$7,600. Two dwellings, brick, 3 stories, 16x31 feet, Eighth and Reed streets. Cost, \$3,500. One dwelling. Cost, \$24,000. Eight dwellings.

P. Ponto (O), 1427 South Ninth street. P. Gorono (C), 724 Saller street. Cost, \$900. Dwelling, brick, 2 stories, 16x29 feet, 1334 South Ninth street.

St. Mary's Hospital (O), Frankford avenue and Palmer streets. Irwin & Leighton (C), 126 North Twelfth street. Cost, \$350,000. Hospital, brick, 5 stories, 74x296 feet, Frankford avenue and Palmer street.

Thomas Duff (O), 3648 Frankford avenue. Cost, \$42,000. Twenty-one dwellings, brick, 2 stories, 14x30 feet, Aramingo and Madison streets.

C. N. Graham (O), 849 Church lane. H. H. Clark (C), 170 East Walnut lane. Cost, \$3,500. Storage, brick, 2 stories, 25x100 feet, 849 Church lane.

William Rogers (O), Manayunk, Phila. H. C. Missimer (C), 124 Kolas street. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x44 feet, Kinglesley street and Manayunk avenue.

O. Lehman (O), Washington lane and Thouron avenue. L. D. Stites (C), 126 Herman st. Cost, \$3,560. Two dwellings, stone, 2 stories, 16x36 feet, Washington lane and Thouron avenue.

F. J. Doyle (O), 859 Allegheny avenue. George Zahn (C), 812 East Tioga street. Cost, \$3,200. Two dwellings, brick, 2 stories, 14x31 feet, Buckius and Kingston streets.

A. Rowland (O), 4332 Pekin street. Cost, \$6,400. Two dwellings, brick, 3 stories, 16x44 feet, Martin and Mitchell streets.

Dr. George Woodward (O), North American Building. J. A. Gerhart (C), 7201 Charlton street. Cost, \$6,000. Dwelling, stone, 2 stories, 42x30 feet, 7205 Charlton street.

M. DePalma (O), 8147 Erdwick avenue. C. Gerek (C), 7101 Torresdale avenue. Cost, \$2,150. Store and dwelling, brick, 2 stories, 16x47 feet, 5115 Erdwick avenue.

C. W. Rogers (O), 237 South Forty-ninth street. Two dwellings, brick, 2 stories, 23x15 feet, Edgewood and Walnut streets.

B. S. Sattler (O), Real Estate Trust Building. Klos & Reik (C), 1131 Race street. Cost, \$3,500. Store and dwelling, brick, 2 stories, 20x82 feet, Eleventh street and Lindley avenue. Cost, \$3,500. Store and dwelling.

Harbison Dairies (O), 2015 Dreer street. W. R. Brown (C), 2145 East Fourth street. Cost, \$8,000. Dairy building, brick, 2 stories, 65x110 feet, 2015 Dreer street.

Thomas Merkel (O), East Mentor street. Cost, \$5,700. Three dwellings, brick, 2 stories, 14x26 feet, 4830-32-34 Palethorp street.

Cost, \$3,800. Manufacturing Building, 225 South Second street.

Germantown Steam Co. (O), 515 Pelham road. Alfred James (C), Bala, Pa. Cost, \$1,000. Manufacturing building, 515 Pelham road.

C. M. Biddle (O), 517 Commerce street. H. L. Roberts (C), 1512 Vine street. Cost, \$2,600. Office, 517 Commerce street.

S. Mahis (O), 313 South street. A. Kupickinkoff (C), 709 Corrish street. Cost, \$1,800. Store, 313 South street.

J. J. Repp (O), 926 South Sixtieth street. F. C. Stockwell (C), 824 South Sixtieth st. Cost, \$1,200. Store and dwelling, 615 South Sixtieth street.

Proposals

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 13, 1914.—Sealed Proposals will be opened in this office at 3 P. M. August 24, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States Post Office at Bedford, Pa. The building is one story and basement, with a ground area of approximately 4,720 square feet; stone facing; composition roof; first floor of fireproof construction. Drawings and specifications may be obtained from the Custodian of site at Bedford, Pa., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

Schools.—Sealed proposals for Construction, Heating, Plumbing and Electric Work for two new school buildings for the School District of the Township of Plymouth, Montgomery County, Penna., will be received by Mr. I. Harold Shoemaker, Secretary of the Board, care of of George K. Brecht, Esq., 506 Swede street, Norristown, Pa., until 8 P. M., August 10th, 1914, when they will be opened and read publicly. The Board reserves the right to reject any or all bids received.

Drawings and specifications are on file at the Architect's Office, and may be consulted by prospective bidders. Copies of drawings and specifications will be furnished to prospective bidders upon reasonable notice to, and at the discretion of the Architects, C. E. Schermerhorn and Watson K. Phillips, 430 Walnut street, Philadelphia, Pa.

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Alterations and Additions

University of Pennsylvania (O), Thirty-fourth and Spruce streets. George & Borst (C), 277 South Eleventh street. Cost, \$3,000. College, Thirty-fourth and Spruce streets.

Holy Souls Church (O), Nineteenth and Tioga streets. Fidelity Construction Co. (C), Heed Building. Cost, \$3,000. Church, Nineteenth and Hioga streets.

I. S. Idell (O), 6016 Haverford avenue. George W. Gardner (C), 54 North Fortieth street. Cost, \$3,456. Store and dwelling, Sixtieth and Race streets.

Ed. Kessler (O), 3909 Germantown avenue. F. K. Stahl (C), 2713 North Park avenue. Cost, \$2,900. Garage, 3909 Germantown avenue.

Max Fisher (O), 1840 South Second street. M. Knasansky (C), 916 South Fourth street. Cost, \$900. Store and dwelling, 1840 South Second street.

E. W. Clare (O), Moreland avenue and Thirty-fifth street. Stokes Bros. (C), 6723 Musgrave street. Cost, \$600. Garage, Thirty-fifth street and Moreland avenue.

E. L. McCurdy (O), 4003 Lancaster avenue. C. Smith & Son (C), 4215 Haverford avenue. Cost, \$1,000. Dwelling and office, 4003 Lancaster avenue.

Benjamin Stamble (O), 1209 North Seventh street. M. Bekst (C), 1540 North Sixth street. Cost, \$3,000. Store and dwelling, Fifty-second and Viola streets.

Pennsylvania Co. (O), 517 Chestnut street. I. H. Osmone (C), 612 Race street. Cost, \$1,850. Stable, 1443 Cherry street.

John T. Lewis Co. (O), Huntingdon and Thompson streets. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$5,000. Manufacturing Building, Huntingdon and Thompson streets.

Hotel Walton (O), Broad and Locust streets. J. T. Glenn (C), 524 Walnut street. Cost, \$2,000. Hotel, Broad and Locust streets.

Miller Lock Co. (O), Frankford, Pa. F. A. Havens Co. (C), 845 North Nineteenth street. Cost, \$2,000. Manufacturing building, Frankford, Pa.

Powers, Weightman & Rosengarten (O), Ninth and Parrish streets. H. S. Glower (C), Germantown. Cost, \$3,500. Storage, Norristown, Pa.

Board of Education (O), City Hall, Philadelphia. Mitchell Bros. (C), 2125 Race street. Cost, \$5,390. School, Thirty-sixth and Sansom streets.

R. A. Heyman (O), Land Title Building. Doyle & Co. (C), 1519 Sansom street. Cost, \$8,000. Bank, Juniper and Chestnut streets.

William Loney (O), 210 South Fifty-second street. Cost, \$900. Dwelling and store, 146 South Sixtieth street.

J. W. Hallowell (O), Real Estate Trust Building. Doyle & Co. (C), 1519 Sansom st.

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Irving Dillon.....Editor

PHILADELPHIA, PA., JULY 22, 1914.

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Editorial Comment

In keeping with the promise made its readers when the present management of "The Guide" assumed control some five years back, viz.: that the publication would be improved and developed in every department until it ranked among the most useful and reliable building and architectural publications of the country, "The Guide" takes pleasure in making an important announcement.

Beginning with this issue, "The Guide" adds to its building news service a Baltimore office, from which will be covered everything of trade interest in the field of new construction throughout Maryland. It is the intention ultimately to cover from this office everything of note in the way of building activity throughout the New South. One of the facts that we desire strongly to impress upon our readers and friends is that in this new service the same painstaking care will be observed to verify and corroborate every item as has been the rule in the other branches of our service. The strong feature of "The Guide's" Building News has been its uniform reliability, its freedom from guesswork, rumor and newspaper talk. This reliability it is "The Guide's" policy to maintain throughout, guaranteeing its readers and subscribers a news service as nearly perfect as care, skill and organization can make it.

* * *

Secretary Patterson, of the Building Managers' Association, ventured the prediction at the recent Duluth convention of that body that office buildings would soon have elevators running horizontally as well as vertically, and that fares would be charged and transfers issued between horizontal and vertical lines. This fare and transfer remark was, of course, sheer humor and was so regarded by the building managers to whom the address was made. The New York "World" seems somehow to have mislaid the sense of humor which normally distinguishes that great paper's point of view, with the result that it takes Mr. Patterson's remarks quite seriously. Just listen to the "World:"

"Before the Building Owners' Association in Duluth, Secretary Patterson recently predicted that office buildings will soon have elevators running horizontally as well as vertically, and that fares will be charged and transfers issued between horizontal and vertical lines.

"A noble idea, truly worthy of the zenith city of the unsalted seas. Except for sightseers, no one had yet dreamed of making vertical traffic pay what it will bear. Perish the thought that owners will do this thing for mere money! The people that fence in public beaches at Coney Island could think of a hundred better reasons. 'A merely nominal fee' will 'keep out the undesirables.' Book agents will count their fares before they venture; bill collectors give up in despair; insurance solicitors abandon with tears their

haunting of the tall towers. In the Sabbath calm of perpetual quiet that will prevail within them, the intellectual giants who inhabit these buildings can 'concentrate' and think great thoughts.

"And yet—after all, is quiet good for business? The man who before renting a shop will estimate the number of people daily passing its door may apply to an office building something of the same reasoning. Mr. Patterson's brilliant idea may displease two classes of people who still have some influence in determining how buildings should be managed. The first are the tenants; the second are those who have business with them. Why not try the scheme first on the apartment houses uptown—pet dogs half fare?"

* * *

The idea of a horizontal elevator is really not bad when one pauses to consider the size of some of the modern office and commercial structures. If you've ever had the "pleasure," as we did the other day, of going up on the wrong end of a great modern department store building and then finding your way unaided across some two blocks of counters, stands, stalls, merchandise and similar impedimenta to the side desired, you'll be tempted to concur on the subject of the desirability of the horizontal elevator. Here's hoping it will come. It certainly is in no whit more strange, novel and fantastic than the escalator now in almost common use.

* * *

S. W. Straus, of S. W. Straus & Co., mortgage and bond brokers, of New York and Chicago, addressed the building managers on the subject of "Office Building Bonds as an Investment." Some of Mr. Straus' views are decidedly quotable, sanely-considered and most shrewdly-reasoned. In the course of his address Mr. Straus said:

"I have the very strongest belief in office building bonds of the better grade. I have the heartiest contempt for office building bonds which are issued in an attempt to put up a sixteen-story building on a towering superstructure of mortgages piled high as the building itself, with the bond buyer contributing all the funds but the handful of coppers which the promoter—I will not call him the owner—has advanced as his share of the ready cash. I do not hesitate to say that there are too many office building bonds issued in recent years in this country which are protected by unsubstantial equities. Sound financing is sound financing, and financing is not sound when the bondholder contributes more than his reasonable share toward the erection of an office building or, indeed, of any other property.

"There are cities which are oversupplied with offices. I have in mind one Western city in which the number of rentable offices was increased in one single year from 4,000 to more than 8,000. Several issues of office

building bonds in that city went into default during the two years following. I think the lesson is plain enough. The investment bankers know it, if all investors do not, but you may be very sure that the most of investors do.

"It is against such conditions as these that the investment banker, specializing in this class of securities, and having the reputation of his house and the fortunes of his clients to protect, would st himself firmly. The record of office building bonds, as a whole, has been too favorable to permit their good name to be imperiled by lending it as a cloak to cover speculative attempts to 'run a shoe string into a million.' The investment bankers must see that the bond issue is well made, well secured and amply protected. There is nothing inherent in office building bonds to prevent them from going into default. They must be protected by ample earning power, which insures the prompt payment of interest. Bond issues which do not conform to this standard of safety should be thrust into the outer darkness.

* * *

"To safeguard the interests of his clients, it is only necessary for the investment banker specializing in office building bonds to adhere to a few single rules.

"First, the building must be erected in response to a real rental demand in a city where real estate values are sound and stable and constantly growing as the result of normal, solid increase in population, and not as the result of booms or speculation, and the bonds must be a direct first mortgage on the property.

"Second, the location must be such as to insure its constant rental.

"Third, the equity representing the cash investment of the owner of the building must be sufficient to protect absolutely the interests of the bondholders.

"Fourth, the margin of assured rental earning power over the annual interest charges must be ample.

"Fifth, the mortgagor must be responsible.

"Sixth, the bonds must mature serially, so that a portion of the loan is being paid off each year during its life, thus more than compensating for the depreciation or obsolescence of the building.

"During the last ten or fifteen years many of the great life insurance companies have loaned money secured by mortgages on office buildings and the land thereunder, thus stamping them as investments of the most conservative character. If such a mortgage is divided up into a series of bonds, of course it loses nothing of its safety. Indeed, if the bonds mature serially, as they should in all cases, the safety of the loan is actually increased, because as the earlier bonds mature and are paid off, the margin of safety over and above the loan is constantly increasing, and the bonds of the final maturity are protected by a much larger equity than the earlier ones. There is a further advantage in a bond issue over an undivided mortgage loan to a large institution. Money market conditions frequently render it impossible for large banks,

trust companies, or insurance companies to make long term mortgage loans of large size on office buildings. Indeed, this condition is fresh in the minds of all of us. By dividing up the loan into bonds, it is disposed of without difficulty. It gives the investor with \$10,000, with \$1,000—yes, even the little \$100 bond buyer—participation in a large mortgage suitable to the investment of a fund of the largest and most conservative institutions.

* * *

"There is another aspect from the standpoint of safety to office building bonds. We will suppose that a given piece of land is worth \$800,000, the building occupying the site costs \$1,000,000, and a first mortgage bond issue stands against this property in the sum of \$1,000,000. It would be protected by an equity of \$800,000. The property must depreciate to that extent before the bondholders' interests would be in danger. It is obvious, at least to me, that such an investment is safer and better protected than in a mortgage loan of the most conservative character where the property worth \$15,000 secures a loan of \$5,000. The margin of safety here is three to one, but the equity is only \$10,000, and, of course, the equity of \$10,000 will be much more quickly impaired than the one of \$800,000."

* * *

Mr. Straus' views derive peculiar pertinency from the fact that the class of bond he discusses is a popular form of investment here in Philadelphia, where, according to a well-known broker, more than five million dollars' worth of just such bonds have been placed during the past year. Mr. Straus, as a conceded expert on the subject in hand, deals with the topic to some extent ex cathedra. In legal phraseology he "qualifies as an expert."

* * *

H. Shuckmann, in a discussion before the American Society of Mechanical Engineers, gave the following classification of annual depreciation charges as adopted by the plants with which he is connected:

	Per Cent.
Factory buildings	5
Factory machinery	12
Power plant equipment.....	10
Electric light system.....	7
Railway tracks	7
Tools and fixtures.....	10
General construction, fences, retaining walls, and so on.....	7
Oil storage tanks	7
Dwellings	5

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

NEW IDEAS, MATERIALS AND DEVICES.

Inter-Phones.

Little conception is possessed by the average person of the extensive use of inter-department telephones, not only in business buildings, but in private houses, until he comes in contact with information such as that contained in recent publications issued by the Western Electric Company, which manufactures something like 100,000 of them in a year. There is practically no combination of telephone communication that cannot now be served by the devices now on the market. Each separate room in a dwelling may be as readily connected to any other room or with the central station as the operation of merely taking a combination ear and mouth-piece from a hook after first pressing a button either on the wall or on a panel placed on the desk or table. More than million inter-phones are now in use in this country and the demand for them is such as to keep great plants busy all the time.

* * *

Saving Floors.

Floor wear is most annoying to tenant and owner alike. It has therefore been the aim of building managers to find some preparation that will preserve the life of floors whether they are laid in wood or concrete, not only because of its economic value to them, but because of the greater satisfaction protected floors will give the tenant.

Such a preparation has been perfected and is now on the market here, where according to the statements of manufacturers it has given good service. It is known as the Saums preservative. It is made in two distinct formulas, one for concrete and one for wood, but both operate exactly alike in producing even, dustless wear. It is not a paint nor substitute for it. It penetrates from a quarter to a half inch below the surface of wood floors and keeps it from splintering, cracking, buckling in new floors, and dry rot. It permits the floor to be scrubbed as easily



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as a linoleum surface. It is suitable in all sorts of buildings, factories and clubs, loft buildings and apartments, offices and residences. It may also be used as a waterproofing agency in stopping leaks in tanks, etc.

* * *

A Kitchenette Range.

Realizing the fact that the partment house kitchenette has come to stay, the Eclipse Gas Stove Co., of Rockford, Ill., has manufactured a range that has virtues particularly attractive to apartment house hunters. The great difficulty with the ranges as now installed in kitchenettes is that they are built to conform to the general restricted area of the culinary departments. The result is that roasting space in the ovens is decidedly limited, and as occasions sometimes arise when it is necessary for persons living in apartments to have turkeys roasted by delicatessen dealers.

The range takes up practically no more floor space than ordinary gas range, yet it has an oven 22 inches wide by 19½ inches deep and 14 inches high, large enough to hold two good-sized roasts or a baking. The type without side shelves measures 38 inches wide by 24 inches deep, and the side shelves add 10 inches to the width. There are six top burners, three of these are of giant capacity for quirk boiling. There are also furnished three double ring burners in psare of the giant capacityburners.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

TRADE NEWS AND GOSSIP.

**Messrs' D. H. Burnham & Company, architects, Chicago, announce that the firm name will be Graham, Burnham & Company. Its membership will be composed as follows: Ernest R. Graham, Peirce Anderson, Edward Probst, Howard J. White, Hubert Burnham and D. H. Burnham, Jr.

**Mr. C. W. Boynton, for the past ten years inspecting engineer of the Universal Portland Cement Company, is resigning his position to undertake a new line of work on the Pacific coast. The Sonoma Magnesite Company is developing its properties in California and Mr. Boynton will take charge of construction and operation. Mr. W. M. Kinney assistant inspecting engineer, who has been in charge of the Universal inspection bureau in Pittsburgh during the past six years, will take up the work which Mr. Boynton leaves.

**Charles J. McCarty & Co., 65 Oliver street, Boston, Mass., have been appointed Eastern New England agents for "The Standard" Low-Charging Concrete Mixers and Contractors' Tools manufactured by The Standard Scale & Supply Company, of New York. This concern has offices in Philadelphia and Pittsburgh, Pa., and Chicago, as well as other principal cities in the United States.

**At its fourth annual meeting, the Builders' and Manufacturers' Exchange elected E. R. S. Embrey president by a unanimous vote. Other officers elected without opposition were James L. Parsons, first vice-president; George Plitt, second vice-president; James L. Marshall, treasurer; Charles E. Welsh, secretary, and Samuel J. Prescott, C. A. Langley, C. E. Coberth, Fred J. White, Peter R. Pullman, E. C. Graham, W. T. Galliher, Harry D. Watts, Andrew Murray and George E. Walker, board of directors.

**Cleveland Master Steam and Hot Water Fitters' Association has been organized in Cleveland, O., with the following officers: President, Albin Seidel, Becker-Seidel Co.; vice-president, D. A. Stewart; secretary, W. B. Van Sickle; treasurer, A. E. Welker, Price-Welker Co.. Executive Committee: C. H. Warner, C. H. Warner Co.; R. J. Chappell, Chappell-Warner Co.; William Chafer, Chafer Co.; Walter Klie, Smith & Oby Co., and D. A. Stewart.

**Pressed Radiator Co., Pittsburgh, Pa., announce the appointment of Homer R. Lind as manager of its Chicago branch. Mr. Lind was formerly Western sales manager of the heating department of the General Fire Extinguisher Co.

**Joseph Dixon Crucible Co., Jersey City, has filed ac rtificate with the Secretary of State of New Jersey, increasing its authorized capital stock from \$1,000,000 to \$2,000,000. At the company's recent annual meeting the retiring board of directors was unanimously re-elected. The present officers are: President, George T. Smith; vice-president, George E. Long; treasurer, J. H. Schermerhorn; secretary, Harry Dailey; assistant treasurer and assistant secretary, Albert Norris.

**United States Radiator Corporation, Detroit, Mich., is planning a large addition to

its plant in Detroit for manufacturing boilers and radiators.

**Pierce, Butler & Pierce Manufacturing Co., Syracuse, and the Kellogg-Mackay Co., Chicago, whose reorganization was announced last month, will be under the active management of Clarence V. Kellogg, of Chicago, and J. T. Duryea, of New York.

COLOR IN BRICK.

Method of Burning as Well as the Quality of the Clay Has Much to Do With the Shading.

Anyone of an observing mind cannot have failed to notice the increasing beauty and diversity of that once rather monotonous object, the brick house. There has been a veritable blossoming of color within the past few years. In order to understand how this has come about it is necessary to have a few facts on the subject of clays in their relation to brickmaking, says C. C. Johnston in "Clay products.

Generally speaking, a brick is light or dark according to the amount of iron in the viring clay. We might have houses made of almost pure white bricks except for the expense. Clays in which the quantity of iron is only a few hundredths of one per cent. are needed for the more refined industry of chinaware, as it is popularly known. The buff-burning clays are those which are low in iron, but still have enough to spoil them for the purpose named. It is from these that we get all of our light shades of brick. They would not yield much color variety but for the ingenuity of the brickmaker.

By adding to the clay a certain mineral substance of an iron nature he changes what otherwise would have been a buff into the beautiful grays with which we are familiar. Again, he can adulterate with red-burning clay and run a whole range of buffs until he reaches terra cotta. Changing his tack, he may so manipulate the drafts of the kiln in burning as to force carbon from the coal into the face of the bricks, and secure novel and attractive effects, from buff to chocolate, and even gun-metal. A further expedient is to mix grains of iron with the clay. The grains fuse when the brick is fired, producing the speckled brick which we now see so frequently. Iron in the granular state forms part of the original body of some clays. The effect upon color, whether the particles are natural or are added as an ingredient, is not that of a pigment in the true sense. The iron influence proper exists in every atom of the clay and gives a uniform color to the brick throughout.

There are minor incidental differences in color which depend upon the manner in which the brick are dried before they reach the firing stage, and in the position in which they are placed in the kiln. Some of the means that have been cited as to the control of color by the brickmaker are old and some of comparatively recent origin. The one which remains to be considered, and the most import-

ant, from the artistic standpoint, is only of yesterday, so to speak.

A new school of fine brick-making has arisen out of the discovery that bricks burned with a rough, instead of a smooth surface. A wall may be either gay or so independent of color, though the process has created an infinite variety of new color effects. The ridges and depressions produce a nap-like softness, very attractive in itself and admitting of color expression not possible with a smooth surface. A wall may either gay or somber and still please the eye, because the light is absorbed in a mellowed harmony.

One manufacturer makes a feature of a combination for which a bough of autumn leaves was actually used as a model, both for colors and natural blendings. At the other extreme are houses which are purposely given an aged, sober appearance. In its appeal the new brick is similar to that of the half-tone engraving.

With the rough-face brick, as with the smooth brick, those of light color are made of fire-clay, a substance mined in the form of rock at a considerable depth from the surface. But for the more pronounced colors, in the case of the rough-face brick, shales and even ordinary surface clays are freely used. Some of the very impurities of the baser clays are found to be rich in color. What would be a blemish to a smooth brick adds to the unconventional beauty of the rough-face brick. In a single brick unit there is often a mingling of various colors, the reds and browns being shaded into purple or green, with suggestions of gold. General color uniformity, however can be preserved at will by the nature of the material employed and the sorting of the brick as it comes from the kiln.

The rough-face process being as a rule less expensive, there has been a cheapening of selling price, which has brought fine brick within the reach of even the humble builder. The average price for 1912 was only \$11.62 per thousand at the kiln. There is also a growing public taste in the matter of building brick.

ENGINEERING OUTLOOK.

Future of Profession Full of Promise Says President of Boston Society.

"The future of engineering is bright. Opportunities are expanding. The world is coming to expect and to demand a higher standard of the engineer and of engineering. Engineering is the oldest of all professions, and dates from the earliest and most elementary civilization; but it is only within comparatively recent years that it has become recognized as a distinct profession, and we must still look to the future for that full recognition to which we engineers believe the profession is entitled."

Then declarations made by President F. H. Fay, of the Boston Society of Civil Engineering are of interest and importance.

"In every field of activity," he continued, "the word is coming more and more to de-

pend and rely on the engineers. But to meet these demands, engineers themselves must grow and become broader men. The successful engineer of to-day and of to-morrow cannot be like the engineer of yesterday, who too often would "retire into the technical recesses of his professional work and content himself with being the servant of other men." The engineer of to-day should be a broad-gauge man, aggressive, alert, in touch with public questions outside his own narrow field, and a leader—not a follower—of men. It is upon the development of the qualities in engineers themselves that the whole future success of the profession depends.

"The best technical school training for an engineer is one which gives a thorough grounding in the fundamental subjects of science and engineering without frills and specialties. In response to popular demand, there has been in most of our technical schools during the past few years, a tendency to too high a degree of specialization. Fortunately a reaction is setting in, and in the best technical schools to-day, courses are being rearranged so as to give the student a more thorough training in science and the general principles of engineering, with less specialization.

"There is one quality of highest importance to the success of the young engineer, which cannot be taught in schools and which he must gain for himself, and that is the ability to properly meet and mingle with his fellow-men. In other words, he should be what is popularly known as a "mixer," and failure in this direction is responsible for the lack of, or limited, success, of many an engineer who has the other requisites, and who but for this lack would undoubtedly achieve a far higher position.

"The engineer should be a manager, and should give orders to other who can do the work under his direction as well as he himself could do it with the situation reversed. It should not be considered professional for an engineer to be a capitalist, and, when he takes his proper place as promoter and organizer and shares in the profits of engineering enterprises, he will no longer be taunted with the saying that "an engineer is only good to spend other people's money." It is by acquiring individual strength that the engineer can give strength to the profession. It is well known that engineers of admitted proficiency often have to work under the direction of men who are unfitted by education and experience to direct engineering work. This is because the engineer is a workman while the other party belongs to the class of "managers." The engineer has not reached his proper rank until he can hold the position of manager, as well as that of a designer and supervisor of work.

"Engineers themselves are frequently responsible for the low estimate which the public places upon the value of engineering services. Chief engineers of corporations and public boards too often make the mistake of hiring engineering assistants at the lowest possible wage, under the false impression that by such rigid economy they are enhancing

their own value in the minds of their employers.

"Such practices do grave injury to the whole profession and cheapen it in the estimation of the public. Furthermore, they tend to react to the disadvantage even to the chief engineer, for his employers will reason that if the rank and file of engineers can be hired so cheaply, engineers as a whole are a cheap lot, and high salaries are not necessary in any grade, even that of the chief engineer himself. The chief engineer who pays a fair wage, taking account of the time and money which the young engineer has spent in securing his education and training capital, will not only secure better, more loyal and more efficient service, but will help to raise the standard of the whole profession."

ARCHITECTURE AND ARCHITECTURAL ENGINEERING AT THE PANAMA-PACIFIC INTERNATIONAL EXPOSITION.

Of all classes of craftsmen who will visit the Panama-Pacific International Exposition in 1915, there will be none whose delight will be keener or whose interest more general than the architect and the architectural engineer.

The exposition itself will be a huge and superb exhibit of the genius of architects. From the Palace of Machinery, which is the largest wooden structure in the world, to the Palace of Fine Arts, which will be constructed to conform with every modern demand for "class A" fireproof structures, the grounds will be constant challenge to the attention and interest of the architect. The reclamation of the exposition site will be likely to engross the attention of the architectural engineer who is acquainted even superficially with the problems of pre-exposition preparation when much of the 635 acres of exposition domain was marsh and tide land, submerged in the waters of San Francisco Bay, or the abode of the long-legged water bird and the clam.

But, supplementing the architectural display represented by the exposition itself, there will be found in the Palace of Liberal Arts, a splendidly comprehensive exhibit of data, drawings, models and photographs related to architecture; there will be also an equally comprehensive display in the exhibit of architectural engineering. Here will be shown the models and working plans of public and commercial buildings, large and small dwelling houses, flats, apartment houses, models, detail drawings and specifications for foundation walls, partitions, floors, roofs, stairways and wood and metal framing, while there will be great general interest in the safety contrivances provided against the terrors of panic and danger by fire, as well as in novel means of convenience provided by such media as moving stairways, elevators, etc.

The display of drawings and models of public buildings will be particularly effective and comprehensive, showing to what extent

the various needs of complicated metropolitan life have been cared for by the designer of modern structures, hospital buildings, court houses, hotels, bank buildings, libraries, boat houses, tennis courts, gymnasiums, riding academies, stables, stations, churches, and finally, the most important of all, homes.

These models and designs of ideal homes will range through all degrees of elegance, and will not only include dwellings in their entirety, but special designs of particular rooms, such as dining and bed rooms library and drawing rooms, model kitchens and even model pantries, so that the visitor who contemplates building a home of his own will here find a thousand hints to be utilized to his lasting advantage.

Architects who have specialized in various lines of their splendid profession will here provide the world with a view of the latest developments of their art and there will not be a problem which the builder encounters but will be covered by the displays which the greatest architects of the world will disclose in the Palace of Liberal Arts. The assurance of the complete character of the exhibit is direct from the host of proposed participants themselves and from those whose earnest inquiries indicate their intended participation.

WORKING HOURS IN ARCHITECTS' OFFICES.

Believing that uniform practice in various architects' offices is desirable for all concerned, the Chicago Architects' Business Association recommends that the following conditions prevail in architects' offices of the State of Illinois.

1. That employees be classed as regular and special.
2. Employees classified as "regular" will be those continually engaged for a period of not less than one year, on a weekly salary basis; it is expected that such employees will assume greater responsibilities to their employers and be granted special privileges, in consideration of faithful service.
3. Employees classified as "special" will be those engaged temporarily. It is deemed proper that such employees be paid by the hour for actual services rendered, making no allowance for vacation or holidays, it being considered fair under these circumstances to allow these draughtsmen a slightly higher rate per hour than regular employees who enjoy privileges of vacations and holidays.

Office Hours.

1. It is understood that draughtsmen are expected to be in their respective offices ready to begin actual work at the hours stated, and that they will continue in service at least until hours fixed for cessation of work.
2. The regular opening time of offices shall be 8.30 A. M. throughout the year.
3. Period of service for Monday, Tuesday, Wednesday, Thursday and Friday, in the morning, shall be four hours, extending to 12.30 P. M.; that the lunch hour shall be one hour extending from 12.30 to 1.30 P. M.; that

the afternoon period shall be four hours, extending from 1.30 to 5.30 P. M.

4. That the Saturday period of service shall consist of four and one half hours, extending from 8.30 A. M., continuously to 1 P. M.

Units of Service.

1. One week's service will consist of 44½ hours.
2. One year's service will consist of 2,180½ hours.

Pay-Day.

1. That pay-day shall be on Monday of every week.
2. That each pay-day draughtsmen be paid up to Saturday night preceding.

Holiday and Vacations.

1. We recommend that regular draughtsmen be given the following holidays on full pay; New Years, Decoration Day, July 4, Labor Day, Thanksgiving and Christmas.
2. That all regular draughtsmen having been in the employ of an architect for more than one year be given two weeks' vacation on full pay, at time most convenient for employer.
3. It should be understood that "regular" draughtsmen quitting the employer's service of their own volition, preceding the completion of any year's service, shall not be entitled to a vacation.
4. "Regular" employees terminating service at the request of their employer shall be entitled to an allowance in cash proportionate to two weeks' salary allowed for vacation in the same ratio as period of service bears to one year.
5. Vacations and holidays are understood to be granted to employees for rest and recuperation, the employee being understood to be in the service of the employer during vacation and holiday time to the same extent as when regularly engaged in the office.

6. It is recognized that an average of 44½ hours per week's service is the maximum efficient service that can be continuously rendered without detriment to health or efficiency of the employee, and that where the employee engages in outside architectural service of any sort for others, he does so at the expense of his employer, and his employer should be credited for corresponding loss of time. The practice of employees of one employer working nights or holidays for another is condemned as detrimental to the best interests of both employer and employee.

7. In the case of emergencies of short duration, regular employees are expected to work over-time for the employer without extra remuneration other than a reasonable allowance for the expense of taking meals away from regular lodging place. In such cases, however, the employees will be credited with off time on account of sickness or otherwise, equivalent to the amount of over-time service rendered in cases of emergency.

8. Draughtsmen are encouraged, however, to make use of a portion of their time off for educational improvement.

SPACE FOR A SMILE.

Securing a Job.

Heating Engineer—Aren't you the boy who was in here a week ago.

Bright Applicant—Yes, sir.

Engineer—I thought so. And didn't I tell you then that I wanted an older boy?

Applicant—Yes, sir; that's why I'm here now:

* * *

It Caused Her to Think.

"I say, mamma," said little Willie, son of a prominent Milwaukee architect, "is it true that when you first met pap you had fallen into the water and he jumped in and saved you?"

"Quite true, my dear," replied mamma, smilingly.

"Then I wonder if that's why pap won't allow me to learn how to swim!"

* * *

Wouldn't Lose Him.

A master plumber at a recent state convention had waited fully an hour for a very slow waiter to serve two courses.

"Now, old man," he said the waiter, "can you bring me some tomato salad?"

"Yes, sir," said the waiter.

"And," continued the master, thoughtfully, "while you're away you might send me a postal card every now and then."—"Plumbers Journal."

* * *

Matrimony vs. Liberty.

Instructor (addressing bright son of a prominent Chicago plumber) —Johnny, tell me who Patrick Henry was, and what did he do?

Johnny—Patrick Henry was a young man, and he lived in Virginia. He had blue eyes and light hair. He was married, and said: "Give me liberty or give me death."

* * *

A Feminine Trait.

Architect—If you insist on this new gown, I'll have to buy it on credit.

His Wife—As long as it's going to be charged, dear, I may as well choose a more expensive ones.

COINING WORDS.

The esteemed Weather Bureau has sprung a new one. It is the word "smog," and it means smoke and fog. The bureau explains that very frequently there are times when this mixture is apparent in the atmosphere, and it considers the new word a great little idea.

Very well, "smog" let it be. But why end there? Let's call a mixture of snow and mud "smud." A mixture of snow and soot "snoot," and a mixture of snow and hail "snail." Thus we might have a weather forecast.

"Snail to-day, turning to snoot to-night; tomorrow smoggy with smud."

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
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Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
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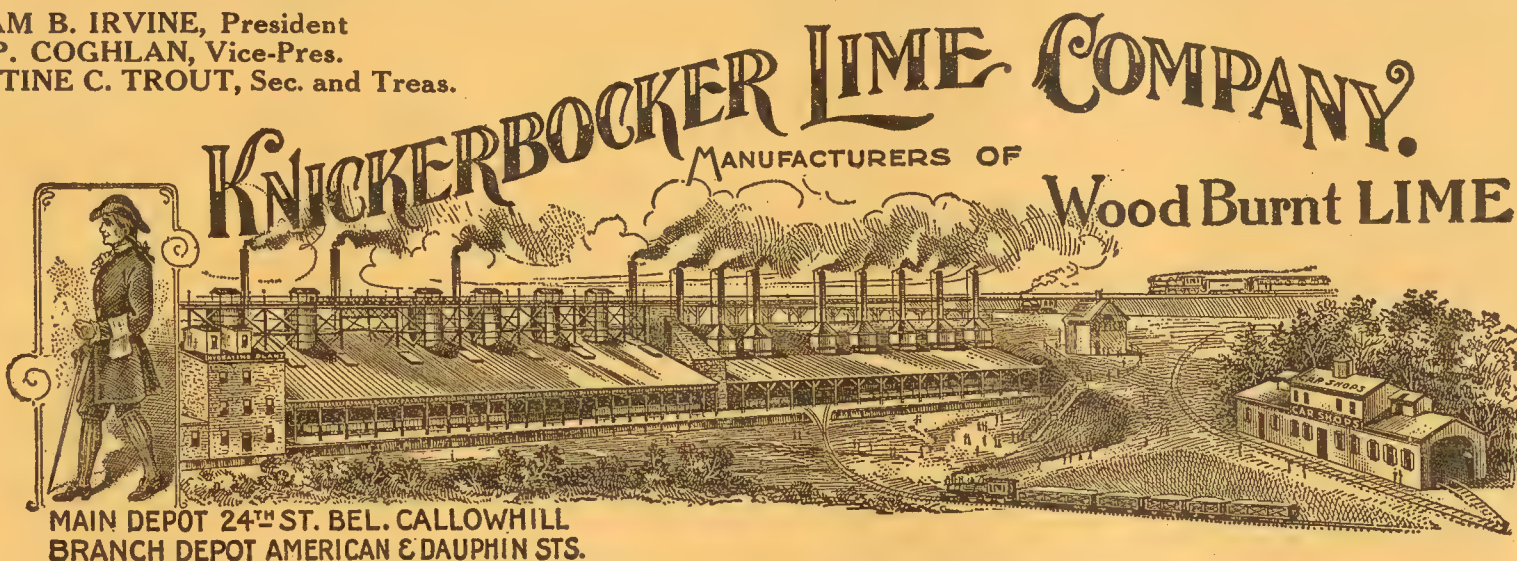
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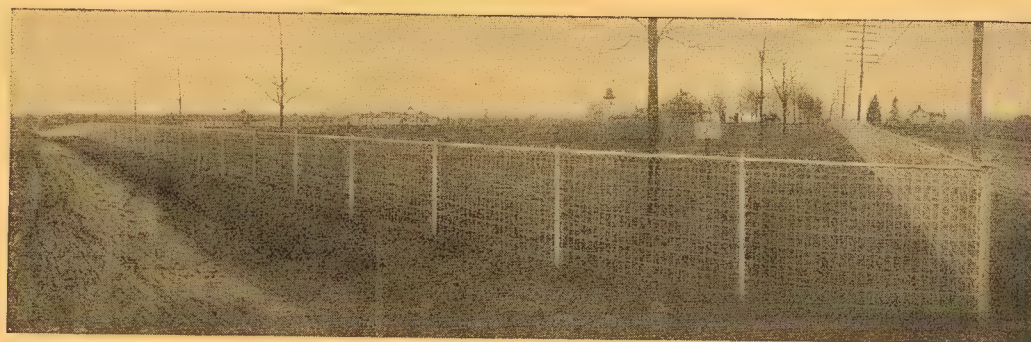
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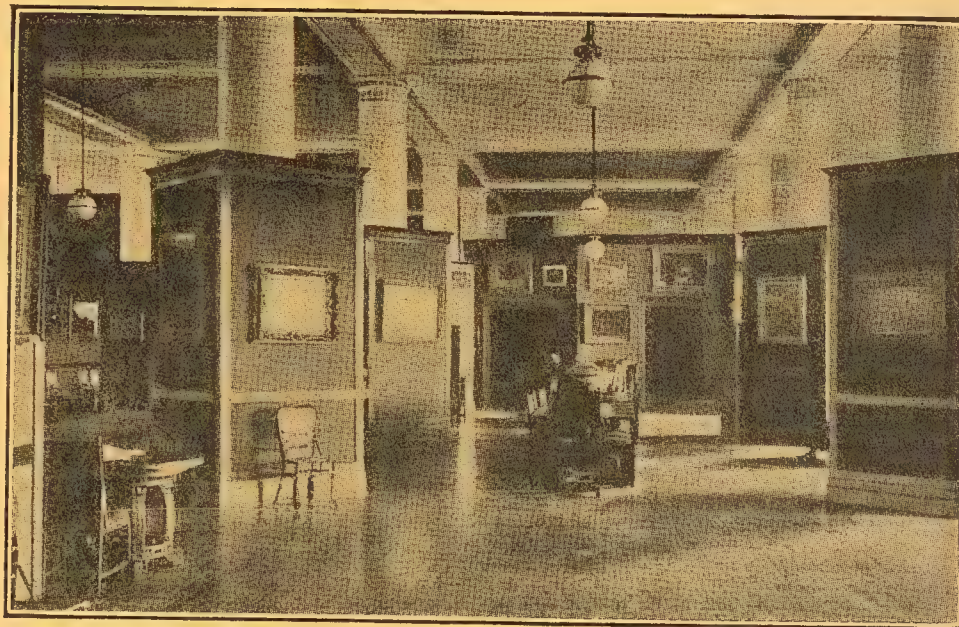
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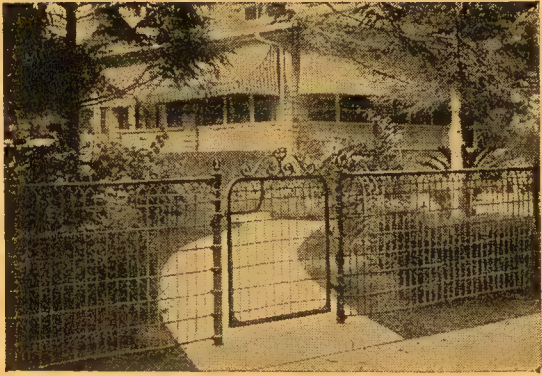
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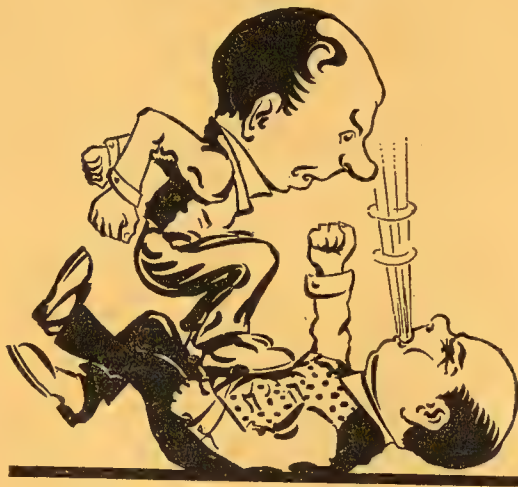
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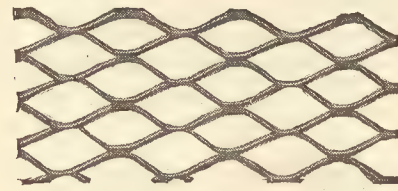
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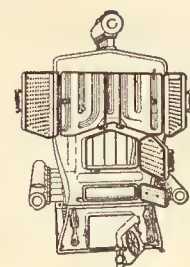
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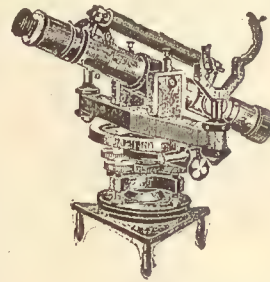
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Vol. XXIX., No. 30.

PHILADELPHIA, WEDNESDAY, JULY 29, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Rectory, Twelfth and Spring streets, Phila. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owner, Assumption R. C. Church, care Rev. J. Smith, on premises. Brick and stone, 3 stories, 22x100 feet, slag roof, hot water heating, electric lighting. Architects taking bids due August 1st. The following are figuring: W. J. McShane, 417 South Thirteenth street; John P. McShain, 631 North Seventeenth street; William R. Dougherty, 1610 Sansom street; M. L. Conneen Co., 2015 Filbert street; J. Myers & Sons Co., Witherspoon Building; Monaghan & Losse, 214 South Twelfth street; D. W. O'Dea, 5219 North Fifth street; H. E. Baton, Twelfth and Sansom streets, all of Philadelphia.

Church (alt. and add.), Forty-sixth street and Chester avenue, Phila. Architects, Stearns & Castor, Stephen Girard Building, Phila. Owner, Chester avenue Baptist Church, on premises. Stone, 1 story, slate roof, electric lighting. Revised plans in progress.

Factory Building, Allegheny avenue and Rosehill street, Phila. Architect, Ivan B. Seovill, care of owners. Owner, Industrial Tape Mills Co., Jasper and Huntingdon sts., Phila. Brick, 3 stories, 73x225 feet, slag roof, metal sash and frames. Owners taking approximate bids, and Robert Beatty & Bro., 2321 East Fletcher street, Philadelphia, are figuring.

Picture Theatre, 1529-31 Chestnut street, Phila. Architects, Henon & Boyle, 10 South Eighteenth street, Phila. Owner, Frank E. DeLong, Thirteenth and Chestnut streets, Phila. Brick and terra cotta, 1 story, 47x165 feet, slag roof, metal lath, metal sash and frames, tile floors (heating and lighting reserved). Architect taking bids due July 31st. The following are figuring: Freund-Seidenbach, Bulletin Building; John McKenna & Sons, 1032 Race street; Edw. Fay & Sons, 2 South Mole street; Smith-Hardican Co., 1606 Cherry street; H. E. Baton, Twelfth and Sansom streets; James G. Doak & Co., Crozer Building; J. Richard Jackson, Perry Building; Stacy Reeves & Sons, 2011 Market street; M. L. Conneen & Co., 2015 Cuthbert street; Melody & Keating, Baily Building; Cramp & Co., Denckla Building; George F. Payne &

Co., 401 South Juniper street; John McShain, 631 North Seventeenth street, all of Phila.

Wagon Shed, Jefferson and Marvine streets, Phila. Architect, Charles H. Casper, 48 North Fifteenth street, Phila. Owner, Supplee Alderney Dairy, on premises. Brick, 1 story, 63x154 feet, slag roof, steel sash. Architect has received bids.

Factory, Thompson and Cumberland streets, Phila. Architect, Charles Bolton & Sons, Witherspoon Building, Phila. Owner, Abbott Estate, Broad and Race streets, Phila. Brick, 2 stories, 60x80 feet, slag roof (heating and lighting reserved). Architects taking bids due August 1st. F. B. Davis, 240 North Sixteenth street; Stacy Reeves & Sons, 2011 Market street; Burd P. Evans & Co., Thirteenth and Wallace streets; Thomas C. Trafford, 1613 Sansom street, all of Philadelphia, are figuring.

Store and Manufacturing Building, 1309 Vine street, Phila. Architects, Sauer & Hahn, 1112 Chestnut street. Owner, H. S. Marks, care of Architect. Brick (2 stories, 20x80 feet, slag roof, steam heating, electric lighting. Architect taking bids due July 30th. The following are figuring: Klos & Roiff, 1131 Race street; A. Shestack, 528 Reed street; J. Gorchov, 317 Reed street; H. Reusswick, 136 North Tenth street; Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street; Samuel Schultz, 923 East Moyamensing avenue, all of Philadelphia.

Boiler House and Garage, Fifth and Wilder streets, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mt. Sinai Hospital, on premises. Brick and Concrete, 2 stories, 40x40 feet, composition roof, electric lighting, metal lath, waterproofing, metal sash and frames, safety treads, gasoline storage. Architect taking bids due July 31st. Charles McCaul Co., 1713 Sansom street; H. E. Grau Co., 1707 Sansom street; Fidelity Construction Co., Heed Building; Freund-Seidenbach Co., Bulletin Building; H. L. Brown, 1714 Sansom street; E. J. Kreitzburg, 1345 Arch street; Stacy Reeves & Sons, 2011 Market street, all of Philadelphia, are figuring.

Warehouse, 203-05 North Broad street.

\$75,000. Architect, Charles E. Oelschlager, Harrison Building, Phila. Owner, name withheld. Brick, steel and concrete, fireproof, 6 stories, 40x100 feet, slag room, steam heating, electric lighting, elevators, metal frames and sash, sprinklers. Architect has received bids.

Club House (alt. and add.), 1312-14-16 North Broad street. \$100,000. Architect, Carl P. Berger, 1418 South Penn Square. Owner, Loyal Order of Moose, on premises. Brick, terra cotta and steel, fireproof, 4 stories, 74x190 feet, slag roof, steam heating, electric lighting, composition floors, metal lath, damp-proofing. Architect taking bids due August 7th. In addition to those previously reported, the following are figuring: A. Whitehead, Inc., 1624 Latimer street; Charles McCaul Co., 1713 Sansom street; Jacob Myers & Son, Co., Witherspoon Building; F. W. Van Loon, Denckla Building; H. H. Wehmeyer, 1004 W. Lehigh avenue; H. P. Werner Co., 3243 Germantown avenue; D. W. O'Dea, 5219 North Fifth street.

Factory, 42 North Seventh street and 707 Filbert street. \$50,000. Architects, Borzner & Wood, 721 Walnut street. Owner, Harry Burstein, 707 Filbert street. Reinforced concrete and brick, 6 stories, 19x60 feet, Barrett roof, steam heating, electric lighting, damp-proofing, expanded metal lath, electric lighting, electric elevator, metal sash and frames. Architects taking bids due August 3rd. James H. Wells, Heed Building; Stacy Reeves & Sons, 2011 Market street; J. Richard Jackson, Perry Building; Barclay White Co., Perry Building; E. E. Hollenbach, Fifteenth and Race streets; John Morrow Construction Co., 308 South Twelfth street; Ketcham & McQuade, 1029 Brown street, are figuring.

Store Building, 114 North Juniper street, Architect, Charles E. Oelschlager, Harrison Building, Phila. Owners, name withheld. Brick, 2 stories, 20x100 feet, slag roof, steam heating, electric lighting. Architect taking bids due July 31st. The following are figuring: P. J. Hurley, 1233 Cherry street; E. J. Kreitzburg, 1345 Arch street; Isaac T. Shoemaker, 1309 Walnut street; F. A. Havens & Co., 845 North Nineteenth street; J. R. Jack-

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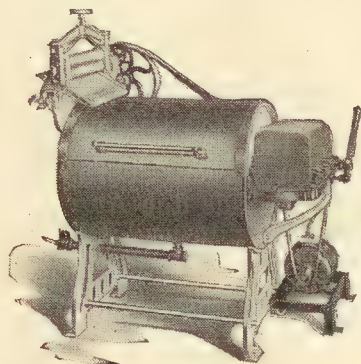
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son, Perry Building; Frank Lucci, 1345 Christian street, all of Philadelphia.

Factory, Nicetown, Pa. Architect, Ballinger & Perrot, 1211 Arch street. Owner, George W. Blabon, Nicetown, Pa. Brick, steel and concrete, 5 stories, 72x273 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, metal sash and frames, rolling steel shutters. Architects taking bids due August 5th. Charles McCaul Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; Turner Concrete Steel Co., 1713 Sansom street; William Steele & Sons Co., Sixteenth and Arch streets; Roydhouse-Arey Co., Fidelity Building, are figuring.

Factory (remodeling), S. E. corner Thirteenth and Cherry streets, Phila. Architect, Charles E. Oelschlager, Harrison Building, Phila. Owner, name withheld. Brick, 5 stories, slag roof, steam heating, electric lighting, elevators, metal lath. Plans about completed. Architect will take bids in a few days.

Garage, Queen Lane, Phila. Architect, L. V. Boyd, Harrison Building, Phila. Owner, W. P. Barba, 5147 Morris street, Germantown, Phila. Stone, 2 stories, 22x28 feet, shingle roof, electric lighting, hot water heating. Builders, Queen Lane Manor Co., Stokley and Midvale streets, are taking sub-bids.

Residence, Germantown, Phila. Architect, Spencer Roberts, Weightman Building, Phila. Owner, Charles C. Wiggins, 1122 Chestnut street, Phila. Stone, 2½ stories, 28x55 feet, wing 10x20 feet, shingle roof, hot air heating, electric lighting, oak floors. Plans in progress.

Storage Building, Glenwood avenue and "N" street. \$80,000. Architects, Stearns & Castor, Stephen Girard Building, Phila. Owners, A. J. Cameron & Co., on premises. Brick, 3 stories, 55x215 feet, slag roof, metal sash and frames, elevators (lighting reserved). Builder, James G. Doak & Co., Crozer Building, Phila., taking sub-bids.

Hospital (alt. and add.), Frankford avenue and Wakefield street. Architects, Stearns & Castor, Stephen Girard Building; Owner, Frankford Hospital, on premises. Brick, 4 stories, slag roof (heating and lighting reserved), metal lath (elevators reserved). Architects taking bids due July 29th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; James G. Doak & Co., Crozer Building; A. R. Raff, 1635 Thompson

street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1210 Sansom street.

Church, Parish House and Rectory, Tenth and Rockland streets, Philadelphia. Architect, J. Franklin Stuckert, 112 South Fourth street, Philadelphia. Owner, Bishop Nickolson Memorial Reformed Episcopal Church, care of Thomas Martindale, Tenth and Market streets, Philadelphia. Stone and plaster, 1, 2 and 3 stories, 90x140 feet, slate and slag roofs (steam heating and electric lighting reserved), dampproofing. Architect taking revised bids, due July 30th. The following are figuring: Abel Bottoms & Sons Co., 41 South Fifteenth street; F. L. Hoover & Sons, 1023 Cherry street; A. R. Raff, 1635 Thompson street; Thomas C. Trafford, 1613 Sansom street; Charles McCaul Co., 1713 Sansom street; Fidelity Const. Co., Heed Building; H. P. Werner & Co., 3243 Germantown avenue, all of Philadelphia.

Factory, Fifty-ninth and Woodland avenue, Philadelphia. Architect, Harry Parker, Drexel Building, Philadelphia. Owners, Fairmount Electric and Manufacturing Company, 2203 Pearl street, Philadelphia. Brick, 2 stories, 45x100 feet, slag roof. Plans completed. Owners will take bids.

Garage, Front and Richmond streets, Philadelphia. Architect, F. N. Greisler, 412 South Fifth street, Philadelphia. Owner, Simon Weil, care of architect. Brick, 2 stories, 90x95 feet, slag roof, steam heating, electric lighting. Owner taking bids, due July 31st. J. Richard Jackson, Perry Building; McCloskey-Bahls, Hale Building, and Basch & Co., 1426 South Front street, all of Philadelphia, are figuring.

Store (alt. and add.), Eleventh and Poplar streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, S. H. Feldman, 1032 Poplar street, Philadelphia. Brick, 4 stories, slag roof, steam heating, electric lighting, consists of new front and alteration and addition. Plans in progress.

Store and Residence, 423-425 South Sixth street, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Bethel Methodist Episcopal Church, 420 South Sixth street, Philadelphia. Brick, 3 stories, 16x65 feet, slag roof, steam heating, electric lighting. Architects taking sub-bids.

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Theatre and Stores, Fifty-second and Market streets, Philadelphia. Architects, Hoffman & Co., Juniper and Market streets. Owner's name withheld. Brick and terra cotta, 1 story, 80x140 feet, slag and tile roof, steam heating, electric lighting, metal lath. Plans in progress.

Church (alt. and add.), Fifth street, above

Venango street. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owner, St. Matthew's Reformed Church, Rev. W. O. Sylvius, on premises. Stone, 1 story, consists of general interior alterations. Architect taking revised bids, due July 31st. Thomas C. Trafford, 1613 Sansom street, Philadelphia, is the only bidder.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residences (2), 2002-04 North Second st., Phila. Architect, P. J. Kluges, 1012 Walnut street, Phila. Owner, Mrs. C. Kaiser, care of Architect. Brick, 2 stories, 18x46 feet, tin roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Hugh Hazlett & Sons, 1701 North Twentieth street, Phila., Pa.

Church (alt. and add.), Marvine and Berks streets. \$2,000. Architect, private plans. Owner, First Christian Church, on premises. Stone (heating and lighting reserved). Consists of interior alteration and addition. Contract awarded to H. E. Batton, Twelfth and Sansom streets.

Stable, Sixteenth and Fontain streets. \$5,500. Architect, private plans. Owners, Moore & Carver, 1305 Diamond street, Phila. Brick, 2 stories, 26x120 feet, slag roof, electric lighting. Contract awarded to James C. Driscoll, Hale Building, Phila.

Club House (alt. and add.), 310 Quince st. \$5,000. Architect, private plans. Owners, Mask and Wig Club, 310 Quince street, Phila. Brick, 3 stories; consists of interior alteration and addition, metal lath, steam heating, electric lighting. Contract awarded to Charles Gilpin, Harrison Building, Phila.

Residence (alt. and add.), 111 East Cliveden street, Gtn. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, C. W. Potts, 127 East Cliveden street, Gtn. Brick, 3 stories, slate roof, expanded metal lath, tile work (heating, electric work, parquetry floors reserved). Contract awarded to Samuel Harting, 20 East Johnston street, Gtn.

Maternity Ward, Penn and Chew streets, Gtn. \$30,000. Architect, Louis C. Baker, 34 South Seventeenth street, Phila. Owner, Germantown Dispensary and Hospital, Penn and Chew streets, Germantown, Phila. Brick, 1 story, 36x155 feet, slate and slag roof, electric lighting, metal lath (heating reserved). Contract awarded to Fidelity Construction Co., 1215 Filbert street, Phila.

Hospital, Howard and Diamond streets, Phila. \$40,000. Architects, Watson & Huckel,

1211 Walnut street, Phila. Owner, Kensington Hospital for Women, 136 Diamond street, Phila. Brick, fireproof, 4 stories and basement, 50x70 feet, slag roof (steam heating and electric lighting separate bids), elevators, metal frames and sash, water-proofing, metal lath. Contract awarded to A. H. Williams & Sons, 419 Locust street, Phila.

Piers (2), 38 and 40 South Wharves, Delaware River, Phila. \$458,700. Architect, private plans. Owner, Department of Wharves, Docks and Ferries, Bourse Building, Phila. Brick, stone and concrete, 2 stories, 183x551 feet (slag roof, heating, lighting, rolling steel doors reserved), metal sash and frames, metal lath, safety treads. Contract awarded to Snare & Triest, 204 South Delaware avenue, Phila.

Film Exchange, 1333 Vine street, Phila., Pa. Architect, Charles E. Oelschlager, Harrison Building, Phila. Owner, New York Film Co., 145 West Forty-fifth street, New York City. Brick, 2 stories, 20x80 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to P. J. Hurley, 1233 Cherry street, Phila.

Rectory, Allegheny avenue and Edgemont street, Philadelphia, \$21,000. Architect, Louis H. Giele, 1123 Broadway, New York City. Owner, St. Adalbert's R. C. Church, care of Rev. M. Monkiewicz, 2645 East Allegheny avenue, Philadelphia. Stone and brick, 4 stories, 34x63 feet, tin, slag and slate roof, steam heating, electric lighting, hardwood floors. Contract awarded to John McShain, 631 North Seventeenth street, Philadelphia.

Store Building (alt. and add.), 127 South Thirteenth street, Philadelphia, \$4,100. Architect, private plans. Owner, Hiram Hoopes, care of builder. Brick, 4 stories, consists of interior alteration and addition, electric lighting, elevators. Contract awarded to Lam Building Company, 1001 Wood street.

Store and Dwelling, 629 Bainbridge street, Philadelphia, \$5,000. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, J. H. Valinsky, 629 Bainbridge street,

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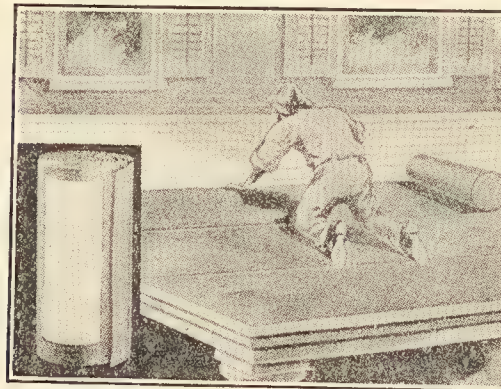
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ing. Contract awarded to M. Yachnitz, 1202 North Seventh street, Philadelphia.

PENNSYLVANIA**Construction News**

School (add.), Ridley Park, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Phila. Owner, School Board, John B. Partridge, Secretary, 118 Chester Pike, Ridley Park, Pa. Brick and stone, 2 stories, slate roof (heating, plumbing, electric work, separate bids), metal lath, metal ceilings, slate blackboards. Owners taking bids due August 5th, at 7 P. M. The following are figuring: Pomeroy Construction Co., 1609 Ranstead street; Mitchell Bros., 2125 Race street; George F. Pawling & Co., Broad and Vine streets; H. E. Grau Co., 1707 Sansom street; Stacy Reeves & Sons, 2011 Market street; Henry L. Brown, 1714 Sansom street, all of Philadelphia, and J. W. Meckert & Co., Ridley Park, Pa.

Chapel, Southampton, Pa. \$1,000. Architects, George Nattress & Sons, Twelfth and Walnut streets, Phila. Owner, name withheld. Frame, 1 story, 20x40 feet, shingle roof. Plans in progress.

Society Building, Wilkes-Barre, Pa. Architects, H. B. Long & Co., Miners' Bank Building, Wilkes-Barre, Pa. Owner, Luzerne Medical Society, Wilkes-Barre, Pa. Brick, stone and terra cotta, 2 stories, 66x48 feet, asphalt and tile roof, fan system of heating, electric lighting, hollow tile and concrete floors, safety treads, metal frames and sash, metal lath, dumb-waiters. Architects taking bids due August 2nd. The following are figuring: Metzger & Fisher, Denekla Building, Philadelphia; George A. Fuller Construction Co., 111 Broadway, New York City; Williams & Richardson, Connell Building, Scranton, Pa.; E. T. Long & Co., Wilkes-Barre, Pa.; John Curtis & Co., Wilkes-Barre, Pa., and Shepherd Construction Co., Wilkes-Barre, Pa.

Station, Scranton, Pa. Architect, J. O. Osgood, 143 Liberty street, New York City. Owner Central R. R. Co. N. J., New York City. Brick and concrete, 3 stories, 46x52 feet, asbestos roof (heating reserved), electric lighting, metal lath, water-proofing, elevators, safety treads. Owners taking bids due August 1st. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring, in addition to those reported.

School, Youngwood, Pa. \$15,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, School Board, Dr. W. H. Brown, Secretary, Youngwood, Pa. Brick, 1 story, Barrett roof, fan system of heating, electric lighting, slate blackboards. Owners taking bids.

Picture Theatre, Steelton, Pa., \$25,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, M. G. Frey, Steelton,

Pa. Brick, 1 story, 40x127 feet, slag roof, steam heating, electric lighting, concrete or composition floors, water-proofing and damp-proofing. Plans in progress. Architect will take bids in two weeks.

Residences (5), Harrisburg, Pa. \$7,500. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, C. V. Rettew, 1000 North Third street, Harrisburg, Pa. Brick, stone trimmings, 3 stories, 15x40 feet each, tin roofs, hot air heating, gas and electric lighting. Owner taking sub-bids.

Apartments (alt. and add.), Harrisburg, Pa. \$5,000. Architect, C. Harry Kain, Arcade Building, Harrisburg, Pa. Owner, John W. Russ, Antler's Hotel, Harrisburg, Pa. Brick, 3 stories, 16x70 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work. Owner taking sub-bids.

Apartments (alt. and add.), Lancaster, Pa. \$10,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, Lewis Cohn, 114 East Vine street, Lancaster, Pa. Brick, 3½ stories, 38x82 feet, slag roof, hot water heating, electric lighting, tile work, dumb-waiter, gas ranges, metal lath. Owner taking bids. L. V. Wright and B. F. Zook, Lancaster, Pa., are figuring.

Store (alt. and add.), Lancaster, Pa. \$1,000. Architect, J. B. Harman, 56 North Duke st., Lancaster, Pa. Owner, M. Frank, Lancaster, Pa. Brick, 12x22 feet, consists of new front, electric lighting, tile work. Architect has received bids.

Municipal Building, Lebanon, Pa. \$25,000. Architects, Hauer & Mowere, 3110 Columbia avenue, Phila. Owners, Lebanon Independent Borough, Daniel W. Hain, Clerk. Brick, brownstone trimmings, 2 stories, 42x70 feet, Washington vein slate, steam heating, gas and electric lighting, metal lath, water-proofing. Revised plans in progress.

School, Cheltenham, Pa. \$25,000. Architect, H. C. Wise, Franklin Building, Philadelphia. Owner, Board of Education, care of J. Holden, Fox Chase, Phila. Brick, 2 stories, 52x75 feet, slate roof, metal lath (heating and lighting separate bids). Architect taking bids due August 5th. F. L. Hoover & Sons, 1023 Cherry street; Ed. F. Fonder, Land Title Building; James G. Doak & Co., Crozer Building; Joseph Bird & Co., 213 North Eleventh street; W. W. Anstine Co., 1214 Filbert street; Monaghan & Losse, 214 South Twelfth street, all of Philadelphia, are figuring.

Sunday School, Pittston, Pa. \$25,000. Architect, George E. Savage, Witherspoon Building, Phila. Owner, First Presbyterian

Church, Pittston, Pa. Stone, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Church and Parsonage, Lehigh, Pa. \$50,000. Architect, George E. Savage, Witherspoon Building, Phila. Owner, Zion Reformed Church, care of H. B. Kennel, Lehigh, Pa. Brick, stone trimmings, 1 and 3 stories, 105x65 feet and 33x61 feet, slate roof, steam heating, electric lighting. Owners taking bids.

Bakery and Stable, Allentown, Pa., \$30,000. Architect, Charles Balderston, 411 Walnut st., Phila. Owner, Frank C. Kolb, Reading, Pa. Brick, 2 stories, 104x154 feet, asbestos roof, maple floors (heating and lighting reserved), metal lath. Architect taking bids due July 31st. The following are figuring: Charles McCaul Co., 1713 Sansom street, Phila.; Fink & Seidle, Colonial Trust Co., Reading, Pa.; W. A. Stein & Co., George H. Hardner, W. H. Gangewere, A. A. Albright, Ochs Construction Co., Butz & Clader, all of Allentown, Pa.

Swimming Pool, Devon, Pa. Architect, Charles A. Blatchley, Drexel Building, Phila. Owner, Henry S. Jeanes, Devon, Pa. Concrete, 30x40 feet, water-proofing. Architect taking bids due July 30th. George & Borst, 277 South Eleventh street, Philadelphia, are figuring.

Apartments (alt. and add.), Norristown, Pa. Architect, E. T. Boggs, 136 South Fourth street, Phila. Owners, the Misses Preston, Norristown, Pa. Brick, 3 stories, gas and electric lighting, steam heating, tile work. Plans about completed. Architect will take bids in a few days.

Residence, Edgemont, Pa. Architects, Mellor & Meigs, 201 South Juniper street, Phila. Owner, Francis V. Lloyd, on premises. Stone, 2½ stories, 25x65 feet, shingle roof, hot water heating, electric lighting. Architects have received bids.

Residence, Stanwick, N. J. \$7,500. Architect, A. H. Moses, 136 South Fourth street, Phila. Owner, Walter S. Lippincott, Stanwick, N. J. Stone and plaster, 2½ stories, shingle roof, hot water heating, gas and electric lighting. Owner taking bids. The following are figuring: J. S. Rogers Co., Steward L. Maines, W. A. Richman, all of Moorestown, N. J.

Hotel, Pittsburgh, Pa. Architects, Janssen & Abbott, Pittsburgh, Pa. Owner, William Penn Hotel, Pittsburgh, Pa. Brick, steel and terra cotta, 18 stories, 120x230 feet, slag roof, steam heating, electric lighting, tile floors, metal lath, water-proofing and damp-proofing, elevators, safety treads, metal frames and sash. Architect taking bids due August 3rd.

The following are figuring: George A. Fuller Co., Oliver Building; Thompson-Starratt Co., Second National Bank Building; James L. Stuart, Oliver Building, all of Pittsburgh, Pa.; Caldwell-Wingate Co., 381 Fourth avenue, New York City; John Griffith & Co., C. Everett Clark Co., of Chicago, Ill.; Norcross Bros. Co., Worcester, Mass.; Cramp & Co., Denekla Building, Philadelphia.

Y. W. C. A. Building, Lancaster, Pa. \$100,-

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000. Architect, Harry G. Shaub, Pittsburgh and Lancaster, Pa. Owner, Y. W. C. A., Lancaster, Pa. Brick, stone and steel, fireproof, 4 stories, slag roof, steam heating, electric lighting. Plans in progress.

Chapel, Marietta, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, Presbyterian Congregation, Marietta, Pa. Brick, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Residence, Lancaster, Pa. \$15,000. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, J. G. Shirk, 219 South Queen street, Lancaster, Pa. Brick, 2½ stories, 30x65 feet, slate roof, hot water heating, gas and electric lighting, tile work, hardwood floors. Plans in progress.

Bungalow, Rawlinsville, Pa. \$4,000. Architects, Harman & Davis, 56 North Duke street, Lancaster, Pa. Owner, E. Walter Yost, Rawlinsville, Pa. Brick, 1½ stories, 30x35 feet, slate roof, hot water heating. Plans in progress.

Twin Residences, Royersford, Pa. \$3,500. Architect, J. V. Poley, Royersford, Pa. Owner, Y. C. Freed, Royersford, Pa. Brick, 2½ stories, 32x43 feet, slate and tin roof, steam heating, gas and electric lighting. Architect taking bids.

Residences (7), Lancaster, Pa. \$22,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, E. M. Miller, 352 North Queen street, Lancaster, Pa. Brick, stone trimmings, 3 stories, 17x50 feet each, tin roof, hot water heating, gas and electric lighting, tile work. Owner is sub-letting all contracts.

Residence, Lancaster, Pa. \$15,000. Architect, H. M. Bartholomew, 39 East Grant st., Lancaster, Pa. Owner, C. A. B. Zook, Hamilton Apartments, Lancaster, Pa. Frame and stucco, 2½ stories, 36x80 feet, shingle roof, hot air heating, electric lighting, hardwood floors, tile work, metal lath. Architect taking revised bids. Titzell Construction Co., Chas. Binkley, Kreider & Rhorer, all of Lancaster, Pa., are figuring.

School, Lansdowne, Pa., \$50,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2

stories, 68x120 feet, slate roof, steam heating, gas and electric lighting, metal lath, waterproofing and dampproofing, slate blackboards. Plans in progress. Owners will be ready for bids due August 15th.

Residence, Radnor, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Mills, Bryn Mawr, Pa. Stone and plaster, 2½ stories, 138x77 feet, tile roof, electric lighting, hardwood floors (heating, lighting and plumbing reserved). Plans in progress.

Garage, Ardmore, Pa. Architect, James C. Norton, Bryn Mawr, Pa. Owner, David Dallas, Ardmore, Pa. Brick, fireproof, 2 stories, 45x200 feet, slag roof, steam heating, electric lighting, metal lath, metal sash and frames. Architect taking bids, due July 31st. F. T. Mercer Co., 1706 Delancey street, Philadelphia, is figuring.

Lodge Building, Boyertown, Pa. Architect, Edward Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Oriole Lodge, Boyertown, Pa. Brick, stone and terra cotta, 2 stories, steam heating, electric lighting. Plans in progress.

Residences (2), Reading, Pa., \$4,000. Architect, Calvin J. Young, 520 Washington street, Reading. Owner, J. R. Yost, Van Reed Mills, Pa. Brick and frame, 20x48 feet, 2½ stories, slate and tin roofs, hot air heating, gas and electric lighting. Plans in progress.

Bungalow, Stowe, Pa., \$3,500. Architect, George L. Gerhard, 519 Penn street, Reading, Pa. Owner, William L. Hampton, Stowe, Pa. Brick and shingle, 1½ stories, 32x40 feet, shingle roof, hot air heating, electric lighting. Owner will sub-let all contracts.

Residence and Store, Pennside, Pa., \$4,000. Architect, Calvin J. Young, 500 Washington street, Reading, Pa. Owner, J. B. Shaffer, Pennside, Pa. Frame and stucco, 2½ stories, 20x30 feet, slate roof, hot air heating, gas lighting. Owner is sub-letting all contracts.

Residences (2), Wyomissing, Pa., \$6,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, William Mays, Wyomissing, Pa. Brick, 2½ stories, 30x50 feet, slate roof, hot air heating, gas and electric lighting. Owner is sub-letting all contracts.

PENNSYLVANIA

Contracts Awarded

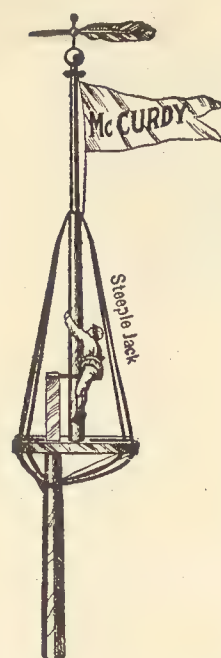
School, Bryn Mawr, Pa. \$46,000. Architect, Ralph E. White, Pennsylvania Building, Phila. Owner, Lower Merion Township School Board, care of William J. Byrnes, Ardmore, Pa. Brick, granite and limestone trimmings, fireproof, 2 stories, 162x78 feet, inlaid slate and slag roofs (heating and electric work separate bids), expanded metal lath, concrete floors, hollow tile, slate blackboards, structural slate. Contract awarded to James H. Wells, Heed Building, Phila.

Residence, Haverford, Pa. \$22,000. Architects, Baily & Bassett, 421 Chestnut street, Phila. Owner, R. Howard Eisenbrey, Harrison Building, Phila. Stone, 2½ stories, 63x34

feet, wing, 40x22 feet; garage, frame, 1½ stories, 22x22 feet, shingle roof, hardwood floors (hot air heating, plumbing and electric work reserved). Contract awarded to F. B. Davis, 240 North Sixteenth street, Phila.

Hospital, Marcus Hook, Pa. \$10,000. Architect, W. A. Courtenay, Jr., Chester, Pa. Owner, State Quarantine Board, Bullitt Building, Phila. Hollow tile and plaster, 1 story, 31x95 feet, asbestos shingle roof, hot water heating, electric lighting, composition floors. Contract awarded to J. H. Richardson, Marcus Hook, Pa.

Residence (add.), Bryn Mawr, Pa. \$2,000. Architects, McIlvain & Roberts, Land Title



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Furnished and Erected
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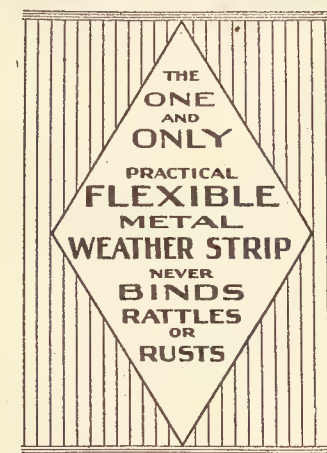
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BERNARD McCURDY

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Philadelphia

Bell, Filbert 23-13.
Keystone, Race 60-17A

Diamond Flexible Metal Weather Strip



Geo. R. C. Johnston, Eastern Sales Representative
371 Drexel Bld., Phila., Pa.



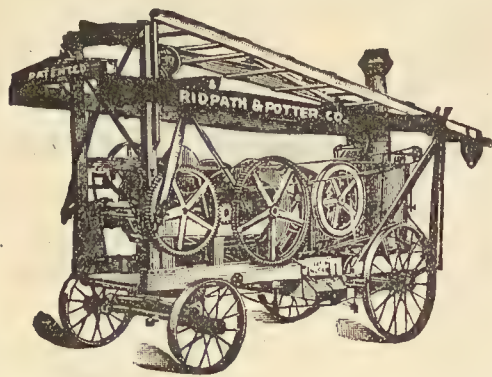
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587 Bourse Building
Philadelphia, Penna.

Building, Phila. Owner, Walter C. Janney, Bryn Mawr, Pa. Stone and plaster, 2½ stories, shingle roof, hot water heating, extension, electric lighting, tile work. Contract awarded to Gray Bros., Rosemont, Pa.

School, Milton, Pa. \$65,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, stone trimmings, 2 stories, 71x156 feet, slate and slag roof, gas and electric lighting, water-proofing, damp-proofing, metal lath, slate blackboards. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

School (add.), Milton, Pa. \$10,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Milton, Pa. Brick, 2 stories, 27x70 feet, slate roof, slate blackboards. Contract awarded to Fink & Seidle, Colonial Trust Building, Reading, Pa.

School (alt. and add.), Enhaut, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Enhaut, Pa. Brick, 2 stories, 37x90 feet, slate roof, electric lighting, slate blackboards. Contract awarded to W. B. Whight, Steelton, Pa.

Bonded Warehouse, Lancaster, Pa. \$15,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Francis Kelly & Co., 103 Market street, Wilmington, Del. Brick, 3 stories, slag roof, electric lighting,

concrete floors (heating reserved). Contract awarded to Jacob Stumpf & Son, 638 South Lime street, Lancaster, Pa.

Hotel (alt. and add.), Lancaster, Pa. \$4,500. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, W. A. Buckius, 201 North West Orange street, Lancaster, Pa. Brick, 1 story, 40x40 feet, slag roof, hot water heating, electric lighting. Contract awarded to B. Frank Bachman, 132 Pearl street, Lancaster, Pa.

School Building, Bressler, Pa. \$7,000. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Board of Education, Bressler, Pa. Brick, 1 story, 40x60 feet, slate roof, electric lighting, slate blackboards. Contract awarded to August C. Wildman, Harrisburg, Pa.

Residence, Phoenixville, Pa. \$3,000. Architect, J. V. Poley, Royersford, Pa. Owner, Dr. Frank Falls, Phoenixville, Pa. Brick and frame, 2½ stories, 18x40 feet, shingle roof, steam heating, electric and gas lighting. Contract awarded to Frank Huber, Parkerford, Pa.

Garage, Bryn Mawr, Pa. Architect, C. W. Thomas, 130 South Fifteenth street, Philadelphia. Owner, Mrs. Charles R. Snowden, Bryn Mawr, Pa. Stone, 1½ stories, 19x24 feet, shingle roof, hot water heating, electric lighting. Contract awarded to J. Morton Warner, Bryn Mawr, Pa.

NEW JERSEY Construction News

Hotel, Atlantic City, N. J. \$500,000. Architects (associated), Vivian B. Smith and Earle M. Henderer, Sheen Building, Atlantic City, N. J. Owner, Rudolf Hotel Co., Atlantic City, N. J. Brick, steel and terra cotta, fireproof, 11 stories, 100x175 feet, 225 rooms and 200 bath rooms, tile and slag roof, steam heating, electric lighting, concrete floors, four elevators, metal lath, water-proofing and damp-proofing. Plans about completed. Architects will take bids in two or three weeks.

School, Stone Harbor, N. J. \$12,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Stone Harbor, N. J. Brick and rough cast, 2 stories, asbestos roof, gas and electric lighting, slate blackboards (heating undecided). Plans in progress.

Residence, Ocean City, N. J. \$15,000. Architect, Vivian B. Smith, Sheen Building, Atlantic City, N. J. Owner, name withheld. Brick and frame, 2½ stories, 30x55 feet, slate and tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Stores and Apartments, Atlantic City, N. J. \$25,000. Architect, Vivian B. Smith, Sheen Building, Atlantic City, N. J. Owner, Chas. F. Wahl, 1302 Atlantic avenue, Atlantic City, N. J. Brick, stone trimmings, 3 stories, 60x90 feet, tile and slag roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Revised plans in progress.

Apartment House, Atlantic City, N. J. \$10,-

000. Architect, Vivian B. Smith, Sheen Building, Atlantic City, N. J. Owner, Thos. G. Sheen, 1542 Atlantic avenue, Atlantic City, N. J. Brick, 2 stories, 25x80 feet, slag roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath. Plans in progress.

Bungalows (3), Ventnor, N. J. \$3,200 each. Architect, Vivian B. Smith, Sheen Building, Atlantic City, N. J. Owner, Thomas G. Sheen, 1542 Atlantic avenue, Atlantic City, N. J. Frame, 1½ stories, 24x34 feet, slate roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Sunday School Building, Plainfield, N. J. Architects, Charles Bolton & Son, Witherspoon Building, Phila. Owner, Netherwood Reformed Church, care of Rev. E. Raulston, Plainfield, N. J. Brick and terra cotta, 1 story, 50x60 feet, slate roof, steam heating, electric lighting. Plans in progress.

Residence, Atlantic City, N. J. Architect, J. Fletcher Street, Drexel Building, Phila. Owner, name withheld. Hollow tile and plaster, 2½ stories, 40x50 feet, slate or tile roof, hot water heating, gas and electric lighting. Plans in progress.

Church, Trenton, N. J. \$30,000. Architect, George E. Savage, Witherspoon Building, Phila. Owner, Cadwalader Heights M. E. Church, Trenton, N. J. Stone, 1 story, 68x90 feet, slate roof, steam heat, electric lighting. Plans about completed. Architect will take bids in a few days.

School, Chesterfield, N. J. Architect, Clyde S. Adams, 1509 Arch street, Phila. Owner, Board of Education, Chesterfield, N. J. Brick and frame, 1 story, 50x65 feet, slate roof. Revised plans in progress.

Residence, Moorestown, N. J. \$6,000. Architect, A. H. Moses, 136 South Fourth street, Phila. Owner, Simeon Van T. Jester, Moorestown, N. J. Frame and plaster, 2½ stories, shingle roof, hot water heating, gas and electric lighting. Owner is taking bids.

Power Plant, Vineland, N. J. Architect and Engineer, James F. Marshall, Vineland, N. J. Owner, Borough of Vineland, N. J. Brick, 1 story, 25x45 feet, corrugated iron. Owner has received bids.

Residence, Camden, N. J., \$4,000. Architect, Charles J. Brooks, 518 Federal street, Camden, N. J. Owner, I. E. Fridrichs, 1408 Broadway, Camden, N. J. Brick, 2 stories, 20x40 feet, slag roof, hot water heating, gas and electric lighting, tile work. Plans in progress. Owner will take sub-bids.

Residences (4), Camden, N. J., \$3,800 each. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, I. E. Fridrichs, 1408 Broadway, Camden, N. J. Brick, 2 stories, 16x50 feet each, slag roof, hot water heating, gas and electric lighting, tile work. Plans in progress. Owner will take sub-bids.

School, Pennsgrove, N. J., \$30,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, Pennsgrove, N. J. Brick, stone trimmings, 2 stories, 60x160 feet, slag roof, steam heating, electric lighting, metal lath, slate blackboards. Plans about completed. Owners will be ready for bids August 1st.

School (alts.), New Egypt, N. J., \$5,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, New Egypt, N. J. Consists of new brick and concrete stairs, hot air heating, safety treads. Plans about completed. Owners will be ready for bids August 5th.

Warehouse (alt. and add.), Camden, N. J., \$4,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner's name withheld. Consists of new elevator shaft, electric lighting, concrete floors, steel shutters, electric freight elevator. Plans in progress.

Fence and Wall, Camden, N. J., \$5,000. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owners, West Jersey Homoeopathic Hospital and Dispensary Association, West and Stevens streets, Camden, N. J. Brick and iron, 600 feet long. Architect taking bids on iron fencing.

New Jersey

Contracts Awarded

Church, Perth Amboy, N. J. \$71,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Phila. Owner, St. Stephen's R. C. Church, Perth Amboy, N. J. Rev. Jos. Urban. Stone, 1 story, 70x151 feet, slate roof, metal lath (heating and lighting reserved). Contract awarded to J. R. Crouse, Perth Amboy, N. J.

Sunday School, Laurel Springs, N. J. \$7,500. Architect, George E. Savage, Witherspoon Building, Phila. Owner, St. Paul's Presbyterian Church, Laurel Springs, N. J. Stone and frame, 1 story, shingle roof, steam heating, electric lighting. Contract awarded to Harry Galheber, Laurel Springs, N. J.

Parochial School (alt. and add.), Gloucester, N. J., \$5,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, St. Mary's R. C. Church, Gloucester, N. J. Brick and concrete, 1 story, 30x23 feet. Consists of lavatory building and interior alterations, tin roof, steam heating, concrete floors, white glazed brick. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

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MARYLAND Construction News

Warehouse, 511 to 517 West Pratt street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, U. S. Woolen Mills, 28 South Paca street, Baltimore, Md. Brick, 6 stories, 50x150 feet, slag roof, electric lighting, elevators. Plans in progress.

Residence and Garage, near Havre de Grace, Md., \$35,000. Architect, Walter M. Gieske, Gunther Building, Baltimore, Md. Owner, J. P. Richards, care of architect. Stone, frame and stucco, 2½ stories, tile roof, hot water heating, hardwood floors, electric lighting plant, sewage disposal system and water supply. Plans in progress. Architect will take bids in about 2 months.

Dormitory Building, Baltimore, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, State of Maryland, State Normal School. Brick, stone and steel, fireproof, 2 stories, slate roof, steam heating, electric lighting. Plans about completed. Architects will soon take bids.

Residence, Roland Park, Md., \$10,000. Architects, Ellicott & Emmart, Union Trust Building, Baltimore, Md. Owner, John M. Cates, 406 Hawthorn road, Baltimore. Stucco, 2½ stories, slate roof, hot water heating, gas and electric lighting, hardwood floors. Architects have received bids and will soon award contract.

Alterations for School, 1442-44 North Bond street, Baltimore, Md. Architect, John K. Stack, 12 East Lexington street, Baltimore, Md. Owner, St. Paul's R. C. Church, Rev. M. F. Foley, Caroline and Oliver streets. Brick, 3 stories. Consists of general alterations to residence for parochial school. Architect taking bids, due July 31st.

Apartment House, University Parkway, Baltimore, Md., \$150,000. Architect, Theodore W. Pietsch, American Building, Baltimore, Md. Owners, Mortgage and Securities Company, 111 North Charles street, Baltimore, Md. Brick, steel, concrete and terra cotta, 6 stories, 80x150 feet, tile and slag roofs, steam heating, electric lighting, elevators, tile and marble work, metal lath. Builder, West Construction Co., Knickerbocker Building, Baltimore, Md. Plans in progress.

Church, Garrison avenue, Baltimore, Md., \$30,000. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, Starr M. E. Church, Mont Alto, Baltimore, Md. Stone, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Church, Mt. Washington, Md., \$30,000. Architects, Baldwin & Pennington, 330 North Charles street, Baltimore, Md. Owner, Sacred Heart R. C. Church, Mt. Washington, Md. Stone, 1 story, slate roof, steam heating, electric lighting. Plans about to be started.

Rairy Buildings, Twenty-ninth and Remington avenue, Baltimore, Md. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Md.

more, Md. Owners, City Dairy Company, on premises. Brick and concrete, 2 stories, slag roof, steam heating, electric lighting, elevator. Plans about completed. Architect will soon take bids.

Residence, Guilford, Baltimore, Md. Architect, E. L. Palmer, Roland Park, Baltimore, Md. Owner, Mrs. C. B. Dallam, 718 St. Paul street, Baltimore, Md. Brick and plaster, 2½ stories, slate roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress.

Residence, Guilford, Baltimore, Md. Architect, E. L. Palmer, Roland Park, Baltimore, Md. Owner, Mrs. Elizabeth Gilman, 513 Park avenue, Baltimore. Brick, 2½ stories, slate roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress.

Nursery Building, Payson and Fayette streets, Baltimore, Md. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owner, St. Martin's R. C. Church, on premises. Brick, stone trimmings, 2 stories, slag roof, steam heating, electric lighting. Plans in progress.

Packing House, Exeter and Lombard streets, Baltimore, Md. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owners, Consolidated Beef and Provision Company, Baltimore. Brick, 2 stories, slag roof, steam heating, electric lighting, elevator. Plans in progress.

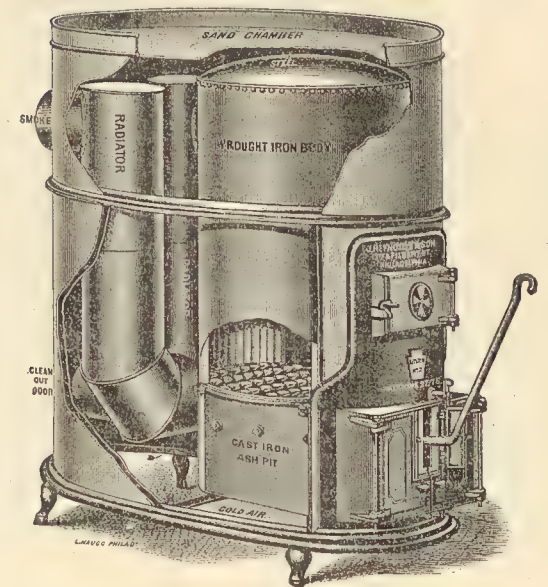
Warehouse, North avenue, Baltimore, Md. Architect, J. E. Laferty, 11 East Pleasant street, Baltimore, Md. Owners, Morgan Millwork Co., Howard and West streets, Baltimore. Brick, 5 stories, 125x160 feet, slag roof, freight elevators, electric lighting. Plans in progress.

Church (add.), Bond street and Lafayette avenue, Baltimore, Md., \$12,000. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owner, German M. E. Church, C. J. Theiss, 1717 East Baltimore street, Baltimore Md. Brick and stone, 1 story, slate roof, steam heating, electric lighting. Architect received bids July 29th.

Residence, Guilford, Baltimore, Md., \$20,000. Architect, E. L. Palmer, Roland Park, Baltimore, Md. Owner, Eugene Greenway, Calvert Building. Brick, 2½ stories, 50x60 feet, slate roof, hot water heating, gas and electric lighting, tile work, hardwood floors. Architect taking bids, due August 3rd. The following are figuring: Singer-Pentz Co., Equitable Building; G. W. Torell, 405 McCulloh street; Cowan Building Co., 106 West Madison street; Roland Park Co., all of Baltimore, Md.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—“Printer's Ink.”

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WINS PARIS PRIZE.

Harry Sternfeld, a graduate of the University of Pennsylvania, has been awarded the eleventh Paris prize of the Society of Beaux Arts Architects. There were 125 entrants in the competition, students from eighteen cities. The ward to Mr. Sternfeld marks the fourth time that the prize has been won by a student from the University of Pennsylvania. The prize, intended for students in the United States under twenty-seven years old, entitles the winner to a residence of two and one-half years abroad for study and travel. A fund of \$2,500 is provided yearly for the purpose. The subject of the competition was “A City Hall Designed to Meet the Needs of a Commission For mof Government.” The second prize was won by B. Hoyt, of New York, and the third prize by J. Moseowitz, of New York. The jury was William Emerson, Wendell P. Blagden, F. H. Bosworth, Jr., H. S. Hewitt, G. S. Chappell, William Lamb, Arthur C. Nash and J. C. Levi.

An advertisement should stick out like a sore thumb without being so sensitive.—“Novelty News.”

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The constant cooing lover takes away the blushing maid,
And the constant advertiser is the one that takes the trade.

MARYLAND

Contracts Awarded

Bank Building, Mt. Airy, Md. Architect, B. E. Kepner, Frederick, Md. Owners, First National Bank, Mt. Airy, Md. Brick, terra cotta and hollow tile, 1 story, 40x30 feet, slag roof, steam heating, gas plant, banking fixtures. Contract awarded to Hahn & Betson, Frederick, Md.

Store Building (alts.), 14 East Baltimore street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia, Pa. Owners, Shepperd & Myers, Hanover, Pa. Consists of new bulk windows, store fixtures and interior alterations. Contract awarded to B. F. Bennett Building Co., 123 South Howard street, Baltimore, Md.

Residence, Hamilton, Md. Architect, Geo. R. Callis, Jr., 218 East Lexington street, Baltimore. Owner, Dr. M. B. Green, Hamilton, Md. Concrete, 2½ stories, slate roof, electric lighting (heating reserved). Contract awarded to John W. Nelson, Hamilton, Md.

Gate House, Laurel Cemetery, Baltimore, Md., \$4,000. Architects, Emory & Nussear, 330 North Charles street, Baltimore. Owners, Laurel Cemetery Co., on premises. Brick and plaster, 1 story, slate roof, steam heating, electric lighting. Contract awarded to L. J. Brown, Park Heights and Belvidere avenue, Baltimore, Md.

Miscellaneous Construction News

Apartments (alt. and add.), Wilmington, Del. \$7,500. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 1000 French street, Wilmington, Del. Brick, 3 stories, 35x100 feet, tin roof, steam heating, gas and electric lighting. Plans in progress.

Residence (alt. and add.), Gordon Heights, Del. Architects, Brown and Whiteside, duPont Building, Wilmington, Del. Owner, C. S. Young, Gordon Heights, Del. Stone and plaster, 3 stories, slate roof, electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Chester, Del. \$3,500. Architect, Roscoe Tindall, Equitable Building, Wilmington, Del. Owners, name withheld. Brick, 2½ stories, 17x38 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors. Plans in progress.

School, Eddystone, Pa. \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, School Board, Eddystone, Pa. Brick and terra cotta trimmings, 75x85 feet, slate roof, electric lighting, slate blackboards. Owners ready for bids.

Apartment House (alt. and add.), Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, James P. Robbins, 208 West Seventh street, Wilmington, Del. Brick, 2 stories, 18x66 feet, gas and electric lighting. Owner is taking bids.

Warehouse (alt. and add.), Wilmington, Del. \$5,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, Phillips Thompson Co., Fourth and French streets, Wilmington, Del. Owner, Phillips Thompson Co., Fourth and French streets, Wilmington, Del. Frame, 1½ stories, 40x84 feet, slag roof, electric lighting. Architect taking bids due July 31st. The following are figuring: Egbert Nutter, 6 West Thirtieth street; Charles J. Dougherty, 1809 Lincoln street; Alfred Downward, 809 Tatnall street; J. E. Healy & Son, 707 Tatnall street; W. D. Haddock & Co., 804 Orange street; H. S. Lynch, 715 Tatnall street; C. H. Tindall & Son, 614 Tatnall street; Harry Corland, E. H. Luff, H. D. Black, all of Wilmington, Del.

Dairy Barns, near Wilmington, Del. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Coleman duPont, Wilmington, Del. Hollow tile and plaster, 1 and 2 stories, shingle roof (electric lighting plant, water supply, artesian well, Architect taking separate bids). Architect taking bids due July 31st. F. T. Mercer Co., 1706 Delancey

street, Philadelphia, and Joseph S. Hamilton, 829 Orange street, Wilmington, Del., are figuring.

Isolation Hospital, Lick Run, O. Architects, Tietig & Lee, Lyric Building, Cincinnati, O. Owner, Cincinnati Board of Hospital Commissioners, E. L. Kennedy, Clerk, Cincinnati, O. Brick and concrete, plastered, 2½ stories, 101x29 feet, slate roof, electric lighting, expanded metal lath, water-proofing, kalamein doors, composition floors, hand lift, iron fences (heating reserved). Owners taking bids due August 1st. James H. Wells, Heed Building, Philadelphia, is figuring.

Buildings (2), Cleveland, O. Architect, Albert Kahn, Lafayette Building, Detroit, Mich. Owner, F. B. Stearns, Cleveland, O. Brick and concrete, 4 stories, 70x155 feet, composition roof, steam heating, electric lighting, metal frames and sash, damp-proofing. Architect has received bids.

Warehouse, Norfolk, Va. Architect, Benjamin F. Mitchell, Norfolk, Va. Owner, Southgate Terminal Co., Norfolk, Va. Brick, reinforced concrete and terra cotta, 3 stories, 116x296 feet, Barrett roof, electric lighting, steel rolling doors, kalamein doors, metal windows, metal lath, cast iron treads, water-proofing (heating and elevators reserved). Architect taking bids due July 29th. Metzger & Fisher, Denckla Building, Philadelphia, are figuring.

Court House and City Hall, Wilmington, Del. \$1,200,000. Architects (associated), John D. Thompson, Jr., Ford Building, Wilmington, Del., and Palmer, Hornbostel and Jones, 63 William street, New York City. Owner, Wilmington and New Castle County Building Commission, Thomas F. Gormley, Secretary, Church Building, Wilmington, Del. Stone and steel, fireproof, 3 and 5 stories. Plans completed. Owners ready for bids.

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Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

Miscellaneous

Contracts Awarded

Storehouse, Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del., Owner, Edward Krause, French street, Wilmington, Del. Brick, concrete and steel, 2 stories, sla groof, steam heating, electric lighting, concrete floors. Contract awarded to W. D. Haddock & Co., 804 Orange st., Wilmington, Del.

Store (alt.), Wilmington, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owners, Pyle & Co., 619 Market street, Wilmington, Del. Limestone, 2 stories, slag roof, gas and electric lighting, composition floors (elevator and decorating reserved). Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Picture Theatre, Wilmington, Del. \$5,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, John S. Bogucki, 403 Maryland avenue, Wilmington, Del. Brick, 1 story, 30x90 feet, slag roof, hot water heating, gas and electric lighting, concrete floors. Contract awarded to Martin Toneyzyk, Wilmington, Del.

Church, Wilmington, Del. \$36,000. Architects (associated), Frederick Mann, Minneapolis, Minn., and Brown & Whiteside, duPont Building, Wilmington, Del. Owner, Emanuel P. E. Church, Wilmington, Del. Stone, 1 story, 125x68 feet, slate roof (vapor heating, plumbing, tile and leaded glass reserved), electric lighting, damp-proofing. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

A FREAK OF THE BUILDER'S ART.

The most unique large building in America, probably—in point of the manner of its construction—is the Tabernacle of the Mormon Church at Salt Lake City. There is neither nail nor iron used in its construction, except for the curious shingling of the roof—rawhide supplanting all these devices. Every bit of material in the edifice had to be hauled by ox-team from the Missouri River and yet the giant edifice was built in such wise that twenty doors permit of its emptying inside of four minutes.

To the layman, however, the curious aspect of the Tabernacle, like some huge egg, just rising from the ground, constitutes its oddest phase. Erected between the years 1864-7, this huge and extraordinary structure has the shape of an oval or ellipse, 250 in length by 150 width, and stands 70 feet in height. The roof which surmounts it and gives it its strange appearance is of wood, topped with iron shingles, so arranged as to cause it to resemble the shell of a turtle or the inverted hull of a ship. This dome is supported by forty-four sand-stone pillars.

The interior the Tabernacle presents one of the great unsupported arches of the world. There are seats here for over 8,000 people, while standing room for over 12,000 is provided.—"American Carpenter and Builder."

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

E. C. Brown (O), 427 South Broad street. W. J. Robinson (C), 1508 Lombard street. Cost, \$7,600. Apartment house, brick, 3 stories, 18x93 feet, Broad and Lombard streets.

Cameron & Co. (O), Glenwood avenue and H street. James G. Doak & Co. (C), Crozer Building. Cost, \$65,000. Brick, 3 stories, 70x215 feet. Cost, \$13,000. Factory, Glenwood avenue and H street.

L. Epstein (O), 213 West Main street, Moorestown, N. J. Louis Levin (C), 2420 South Franklin street. Cost, \$2,200. Store and dwelling, brick, 3 stories, 14x25 feet, 941 South Fifth street, Phila.

B. Libinson (O), 4450 Edgemont street. Cost, \$2,400. Two dwellings, brick, 2 stories, 14x40 feet, 2710-12 Ontario street. Cost, \$3,000. Two dwellings.

H. B. Hawthorn (O), 7339 Limekiln Pike. W. G. Krewson (C), Forrest and Johnson sts. Cost, \$2,400. Dwelling, brick, 2 stories, 16x39 feet, Williams and Upsal streets.

Kahn & Greenburg (O), Morris Building. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$18,000. Theatre, 1 story, 31x150 feet, 2200 North Broad street.

Jacob Korman (O), 600 East Wensley st. Cost, \$30,400. Nineteen dwellings, brick, 2 stories, 14x32 feet, Mercer and Ontario sts. Cost, \$30,400. Nineteen Dwellings.

C. R. Siegel (O), Forty-sixth street and Larchwood avenue. Cost, \$10,000. Two dwellings, brick, 2 stories, 16x56 feet, Sixty-first street and Washington avenue. Cost, \$144,000. Thirty-six dwelling. Cost, \$40,000. Eight dwellings. Cost, \$10,000. Two dwellings,

Sixty-first street and Washington avenue.

Kanstantz & Schultz (O), 2405 Duncannon street. Cost, \$3,200. One dwelling, brick, 2 stories, 20x40 feet, Orthodox and Almond sts.

Charles Evans (O), Harrison Building. I. T. Shoemaker (C), 1309 Walnut street. Cost, \$37,500. Apartment house, brick, 4 stories, 40x100 feet, Thirty-ninth and Ludlow streets. Cost, \$37,500. Apartment house.

N. Inlander (O), Eighty-fifth street and Tinicum avenue. K. J. Scholtz & Co. (C), Eighty-eighth street and Eastwick avenue. Cost, \$2,400. One dwelling, brick, 2 stories, 16x48 feet, Eighty-fifth street and Tinicum avenue.

O. Kaizmaek (O), 4739 Melrose street. Cost, \$3,000. Two dwellings, brick, 2 stories, 16x40 feet, 4412-4414 Almondstreet.

Wilson & Weller (O), York road and Ruscomb street. Cost, \$28,000. Fourteen dwellings, brick, 2 stories, 14x25 feet, Rockland and Sydenham streets.

J. Smith (O), 1920 Kinsey street, J. Fotheringham (C), 3367 Frankford avenue. Cost, \$2,400. One dwelling, brick, 2 stories, 16x44 feet, Dittman and Kinsey streets.

Robert Killough (O), Wayne and Duval sts. Cost, \$28,000. Eight dwellings, brick, 3 stories, 24x36 feet. Cost, \$21,000. Six dwellings, Anderson and Meade streets.

E. K. Davis (O), 2400 West Oakdale street. Cost, \$15,000. Ten dwellings, brick, 2 stories, 16x30 feet, 3969 to 87 Terrace street. Cost, \$2,500. One store and dwelling. Cost, \$3,200. Two dwellings. Cost, \$13,500. Nine dwellings.

Alterations and Additions

C. W. Lloyd (O), 6345 Greene street, Gtn. Davis Pennock (C), 5221 Webster street. Cost, \$6,500. Garage, 6345 Greene street, Gtn.

C. Kufule (O), 2205 Walnut street. John Welsh (C), 217 North Seventeenth street. Cost, \$2,000. Garage, 2005 Walnut street.

Pennsylvania Hospital (O), Eighth and Spruce streets. R. C. Ballinger (C), 218 North Thirteenth street. Cost, \$5,000. Hospital, Eighth and Spruce streets.

David Berg Distilling Co. (O), Swanson and Tasker streets. Joseph Levin Co. (C), 1530 South Sixth street. Cost, \$1,000. Warehouse, Swanson and Tasker streets.

M. Leblang (O), 509 South Fifth street. Cost, \$3,000. Hotel, 509 South Fifth street.

Miller Lock Co. (O), Frankford, Phila. F. A. Havens Co. (C), 845 North Nineteenth st. Cost, \$3,000. Boiler house, Frankford, Phila.

Newcorn & Green (O), 1032 Market street. Lam Building Co. (C), 1001 Wood street. Cost, \$1,900. Store, 206-208 Market street.

S. Lieberman (O), 889 North Sixth street. A. M. McClintock (C), 1937 Ridge avenue. Cost, \$2,000. Apartment house, Ninth and Race streets.

J. Stern (O), 540 Spruce street. B. Bornstein (C), 412 South Fifth street. Cost, \$1,100. Store and dwelling, Sixth and Spruce streets.

Hebrew Educational Society (O), 1122 Chestnut street. H. Reusswick (C), 137 North Tenth street. Cost, \$1,150. Dwelling, 1529 North Seventh street.

C. W. Potts (O), 127 Clinton avenue. Samuel Harting (C), 20 East Johnson street. Cost,

\$2,000. Dwelling, 111 Germantown avenue.

Trinity Lutheran Church, Eighteenth and Wolf streets. F. J. Boas (C), 201 North Broad street. Cost, \$1,000. Church, Eighteenth and Wolf streets.

Dr. H. B. Keich (O), Hartville street and Allegheny avenue. A. S. Brown (C), 1901 E. Clearfield street. Cost, \$1,850. Awelling, Hartville street and Allegheny avenue.

Pennsylvania Trust Co. (O), 517 Chestnut street. J. Duncan (C), 920 Walnut street. Cost, \$2,500. Warehouse, 105 Arch street.

Jefferson Medical College (O), Tenth and Walnut streets. Pomeroy Construction Co. (C), 1609 Ranstead street. Cost, \$3,500. Residence, 1023 Clinton street.

Girard Trust Co. (O), Broad and Chestnut streets. Ed. Atkins (C), 249 South Twenty-fourth street. Cost, \$1,500. Bank, Broad and Chestnut street.

Leo. Neisson (O), Twelfth street and Oak Lane avenue. John Morrow Construction Co. (C), 308 South Twelfth street, Philadelphia. Cost, \$1,600. Garage, Twelfth street and Oak Lane avenue.

Rev. W. Kieran (O), 242 South Twentieth street. Cunningham & Bartholomew (C), 4326 Paul street. Cost, \$4,000. School, Twentieth and Locust streets.

Lehigh Valley R. R. Co. (O), 212 South Third street. F. L. Hoover & Son (C), 1023 Cherry street. Cost, \$4,000. Restaurant, 116 North Delaware avenue.

Board of Education (O), City Hall. Standard Construction Co. (C), Drexel Building.

Cost, \$2,000. School, Fifteenth and Mount Vernon streets. Cost, \$3,850. School, Germantown avenue and Wyoming street. Cost, \$4,400. School, Broad and Butler streets. Cost, \$2,100. School, Forty-third and Ogden streets.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

Schools.—Sealed proposals for Construction, Heating, Plumbing and Electric Work for two new school buildings for the School District of the Township of Plymouth, Montgomery County, Penna., will be received by Mr. I. Harold Shoemaker, Secretary of the Board, care of of George K. Brecht, Esq., 506 Swede street, Norristown, Pa., until 8 P. M., August 10th, 1914, when they will be opened and read publicly. The Board reserves the right to reject any or all bids received.

Drawings and specifications are on file at the Architect's Office, and may be consulted by prospective bidders. Copies of drawings and specifications will be furnished to prospective bidders upon reasonable notice to, and at the discretion of the Architects, C. E. Schermerhorn and Watson K. Phillips, 430 Walnut street, Philadelphia, Pa.

Addition to School.—Sealed proposals for Construction, Heating, Plumbing and Electric Work for two-story addition to school building, at Ridley Park, Pa., will be received by the School Board, John B. Partridge, Secretary, 118 Chester Pike, Ridley Park, Pa., until 7 P. M., Wednesday, August 5th, 1914. The Board reserves the right to reject any or all bids received. Drawings and specifications are on file at the offices of the Architect, Paul A. Davis, 3rd, Presser Building, 1713 Sansom street, Philadelphia, and may be consulted by prospective bidders.

LIBERTY VS. RESTRICTION.

Just as the driving force of an engine is to be found in the steam chest and not in the brake, so the driving force in civilization will be found in liberty and not in restriction. The cycle will, in due time and after a colossal waste of energy and of accomplishment, complete itself, and liberty will once more displace regulation and restriction as the dominant idea in the minds of men. It is worth your while to take note, therefore, that while liberty is not now in the foreground of human thinking and action, it cannot long be kept out of the place which of right and of necessity belongs to it.—President Nicholas Murray Butler.

When the game is advertising, specializing pays. You couldn't advertise hats in a brick magazine any more than you would advertise corsets in a tobacco trade journal. Selecting your medium depends on the class you aim to reach. If the class is architects or builders, your medium is "The Guide."

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Irving Dillon.....Editor

PHILADELPHIA, PA., JULY 29, 1914.

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How words, under the sanction of custom, arrive at new meanings widely at variance with their original acceptation is somewhat pertinently instanced in the case of terms "esplanade" and boulevard, now so often heard in connection with projects related to city planning. Both esplanade and boulevard were originally military terms used in the days of the Romans to designate certain parts of the fortifications common to that period. The esplanade, architecturally applied to a terraced walk or drive, meant originally the void space between the citadel and the first house of the town; the glacis of the counter-scarp or the sloping of the parapet of the covered way toward the country. So with boulevard. Originally the rampart of a fortified city; then a street or promenade occupying the line of demolished fortifications, boulevard has by easy stages degenerated to a term applicable to any showy or extra-pre-tentious highway. The French were the first people to associate the word with their street system. If some of the old Romans were to return to find the word boulevard, which in their day meant the level space on top of the ramparts, applied to ornamental parkways and urban avenues, they'd be not a little puzzled to account for the transposition which has taken place in its meaning.

* * *

Legislative interference with business is neatly burlesqued in the New York "Sun" under the caption "The Complete Business Letter Writer for 1915." The letter is supposed to be the answer from a more or less mythical business house to a prospective customer asking their prices on certain lines of goods. Here is the letter:

Smith Manufacturing Company, Rochester,
N. Y.

Gentlemen: Referring to your letter (see Postal Regulation, p. 126, pp. 44) of the 28th, we (a corporation organized under the laws of Ohio, certificate filed in the office of the Secretary of New York State, New York) beg to advise you that we can quote the price of \$20 (see United States Revised Statutes, Laws of 1914, sec. 18) per ton, car-load lots (see Interstate Commerce Ruling, 256; see also dicta in 128 U. S., 264; Brown vs. Pennsylvania Railroad Company, 168 Pa., 267). This quotation is special to you (see ruling of Department of Justice in the matter of Brown Milling Company) and is made subject to our right to claim immunity (see N. Y. Penal Code, pp. 48). If you receive a better quotation from any other of our competitors you will, of course, advise us under the authority of U. S. Revised Statutes, pp. 2247, sub. 2. We shall be glad to fill your order (subject to rule laid down in leading case of Jackson vs. Cobb, 126 U. S. 232) and will ship according to your instruction (see rule 37, New York Public Utility Commission). Very truly yours,

J. P. JONES,

President Jones Manufacturing Company.

State of Ohio, County of Fairfield, ss:

J. P. Jones, being duly sworn, deposes and says: That he has submitted the foregoing

letter to his counsel and has been advised that it is legal. That deponent is not a director of any bank, trust company or transportation company. That the Jones Manufacturing Company has never had its charter forfeited, nor has deponent ever been indicted by either State or Federal Grand Jury.

P. P. WHITE, Notary Public.

Will it come to this?

* * *

At a recent hearing held by the New York State Factory Investigating Commission, which is making a recodification of the State factory laws, the question of the combustibility of various kinds of roofing was the subject under discussion. Harry B. Nickols, secretary of the National Association of Master gravel and Slag Roofers, was heard in opposition to the law prohibiting the use of "composition" roofing on factory buildings of more than one story. H. B. McMaster, of the Association of Sheet and Tin Plate Manufacturers, did the talking for the other side. Mr. McMaster's argument was a strong endorsement of the action of the Commission—such as might have been expected from a tin plate manufacturer,—but it was an argument against the wooden shingle rather than against composition roofing. McMaster harped constantly upon the question of combustibility, evading the fact, well known to roofers, that most of the composition roofings are of an incombustible nature and quite as desirable from every other angle as tin, are vastly more desirable under the head of durability.

Mr. Nickols was asked to submit a draft of the section of the law objected to amended as the slag and gravel interests think it should be. The tin plate contingent seems to realize that the publicity given their "little joker" by the "Guide" has destroyed whatever chance it had of passing into legislative enactment.

E. L. Seabrook, secretary of the American Association of Sheet Metal Contractors, is busily engaged in promoting interest in the up State hearings. Mr. Seabrook is, of course, on the tin plate end of the question at issue.

* * *

The architecture of the future will be interpreted, not in wood, stone or concrete, but through the medium of glass, with the result that the world will be inhabited by a uniformly happy race living under the good influence of light. This is the opinion of the well-known writer, Paul Scheerbart, of Berlin, who prophesies as follows:

"The houses will be of glass, with all wood eliminated. The furniture will be of wrought iron, and the framework of the buildings will be of iron, rust-proof, while the walls will be of double glass, to insure warmth, and of many colors, in order to baffle inquisitive persons. The buildings will be heated by electricity and the walls decorated in Tiffany majolica effects. There will be glass garden

houses, where one may live in the sunshine by day and the starlight by night."

Herr Scheerbart draws a fascinating word picture of a city, with stores, churches and public buildings of glass, all brilliantly lighted in many colors. Bruno Tarut, the architect, built a palace along these lines at the Cologne exposition.

* * *

Plans for the proposed \$500,000 experiment station of the United States Bureau of Mines to be located in Pittsburgh, Pa., have been approved by the commission appointed by Congress for that purpose. The Federal Government now owns the property upon which will be erected a group of buildings, especially designed and adapted for the carrying on of the mine safety work and other investigations in which the Bureau of Mines is interested.

The buildings which will constitute the experiment station of the bureau will form a part of a most remarkable and unusual group of monumental edifices devoted to educational purposes. On one side the bureau's buildings will face the great group of structures of the Carnegie School of Technology. On another side is the Carnegie Institute, in which are the art gallery, museum and library. Nearby is the imposing pile of buildings of the University of Pittsburgh. Other near-by buildings are the Memorial Hall, Pittsburgh Athletic and University Clubs and the Hotel Schenley.

* * *

As a part of a comparative scheme for practical standardization of Federal buildings the country over, the Public Buildings Commission, in a report presented to Congress recently, recommended the creation of a Federal Bureau to absorb the Supervising Architect's office of the Treasury Department. The proposed Bureau would include a Board of Estimates and Property.

The report stated that there was approximately \$45,000,000 of public building work to be placed under construction by the Treasury Department; that in the past twelve years \$163,085,431 had been authorized for public building sites and construction, and that during the past three years the average expenditure for construction of buildings, maintenance, operation and all other expenses had been \$20,000,000 a year. The committee recommends:

Organization of a Federal Bureau of Public Buildings, headed by a commissioner at a salary of \$8,000 a year, to be aided by technical experts of the Supervising Architect's office.

Practical standardization of buildings, establishment of groups of States in which similar conditions exist, classification of cities where buildings should be erected and use of type sets of plans and specifications to be used solely for post offices in the same class or group; adoption of a less costly but durable, simple and architecturally desirable construction to permit of economical operation and maintenance. No buildings to be author-

ized where post office receipts are less than \$10,000 a year.

* * *

Montgomery Schuyler, a widely informed journalist and author, who wrote much and with specialized intelligence on architecture, died from pneumonia July 16, after a short illness at his home, at New Rochelle. He was in his seventy-first year.

Mr. Schuyler was a corresponding member of the American Institute of Architects and a member of the National Institute of Arts and Letters. He leaves two sons, Montgomery Schuyler, Jr., distinguished Orientalist and former Minister to Ecuador, and Robert Livingston Schuyler.

Mr. Schuyler was a frequent contributor to the "Architectural Record."

For twenty-five years he was a member of the editorial staff of the New York "Times," and for a few years was also the managing editor of "Harper's Weekly." The "Times" says: "As an editorial writer he belonged to the school of Raymond, Marble and Hurlbert, imparting to the discussion of subjects of importance in the news of the day literary graces of an uncommon sort and the charm of a cultivated and genial mind. His published works include 'Westward the Course of Empire' and 'Studies in American Architecture.'"

In 1912 Mr. Schuyler went to the "Sun" as a special writer on books. The "Sun" says of Mr. Schuyler that since the death of Russell Sturgis Mr. Schuyler was acknowledged to be the leading critic of architecture in the United States, his contributions to his favorite study being numerous and constant and confined in late years to the pages of the "Architectural Record."

NEW PUBLICATIONS.

The Tom Thumbtack Sketches, for the past year a notable feature of "Architecture and Building," have been gathered in book form and published for the edification of those who had not the good fortune to read them in periodical form as well as for those who, like ourselves, will be glad to have them at hand in more permanent form for occasional re-perusal. These Thumbtack Sketches are by long odds the cleverest things of their kind we have been privileged to read for many a day. Obviously the work of a well-informed practicing architect, they are funny enough to have been written by a professional humorist. The illustrations are as clever in their way as the text, numbering over one hundred—splendidly executed drawings, in the style of the inimitable Cruikshank. Here are a few of the titles of these wise, witty and quaintly whimsical sketches, affording the reader, as yet unfamiliar with them, some idea of their scope, variety and sense of the humorous: "Client vs. Architect," "The Wreckers," "Specifications," "The Pinch Hitter," "Contractors," "Tom Thumbtack, Detective," "An Unfinished Inscription," "The Speculative Builders," "Thumbtack and Hen Partners," "On the Side," "The

wrong Lot," "The Seats of the Mighty," "Pot-Pourri," "Advertising," "The Genius." The volume is novel in size, cloth bound in blue and stamped in red and gold. Readers of "The Guide" who have read borrowed installments from this series from time to time in "The Guide" will, we feel sure, be glad of the privilege to secure the entire set. Price, \$1.50. The William T. Comstock Company, Publishers, 23 Warren street, New York City.

A UNIQUE NEW YORK MARKET.

Plans are being prepared for extensive alteration to the building covering about 35,000 square feet, formerly occupied by Stern Brothers, in West 23rd street, New York City. A model market for the sale of foodstuffs and household appliances will be established, the first three floors being sub-divided into booth, about sixty to a floor. The estimated cost is about \$500,000. Fruits, vegetables, flowers and other perishable goods will be on the first floor, dry groceries, bread, pastries, wines and liquors on the second floor and household utensils, supplies and furniture on the third floor. Above these floors will be a mezzine to be used as offices for the lessees of the booths. A restaurant will be on the fourth floor, with a seating capacity of 2,500. The fifth uoor and roof have been accorded a novel treatment by the architects. The roof will be a canopy of glass and all the space will be used as a greenhouse and aquarium. Fish, fowl and birds will be sold on this floor, as well as flowers and horticultural products. Ramps as well as elevators will be provided, thus eliminating crowding.

SERVE ALL ALIKE.

One of the worst things that could happen to any country is to enact laws which are calculated to protect one class of citizens to the detriment of another class. Both are injured and both become distrustful and dissatisfied.—Judge E. H. Gary.

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RALPH ADAMS CRAM JOINS TECH.

President Maclaurin, of the Massachusetts Institute of Technology, announces the resignation of Professor James Knox Taylor, of the Department of Architecture. Professor Taylor's resignation has been made the occasion of a change of the organization as well as of the personnel of the department. Professor Taylor's place as Senior Professor of Architecture has been filled by the appointment of the distinguished architect, Ralph Adams Cram. Mr. Cram will continue the active practice of his profession and his presence in so important a position on the faculty will ensure that the school is kept in close touch with the problems of the day and the needs of the profession. Professor William H. Lawrence, a graduate of the Institute, who has for many years been Professor of Architectural Engineering in the Department, will assume the position of Chairman of the Department of Architecture and will be responsible for the administrative routine.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—“Municipal Engineering.”

MEANS OF EGRESS

The Vital Problem in Building Construction

By William Walter Johnston. Supervising Expert, Pennsylvania State Building Code Commission, Lebanon, Pa., in the “San Francisco Architect and Engineer.”

Out! Let us out! At first a frightened cry. Out! Out! The cry rises to a scream, an agonized, despairing scream issuing out of the depths of masses of black smoke which enwrap the building. Smoke darkens the heavens; it pours into hallways and passageways; it ravel up and down stairs with the speed of a giant athlete; it routs out the occupants of rooms and drives them choking and gasping to the windows for air.

Inside there is a mad rush hither and thither; first o windows looking down from a height of many stories; then to the single stairway where red tongues of flame are already lighting up the dense smoke; then to the fire escape enshrouded in smoke and flame. Out! For God's sake, help us out!

Within is frenzied terror, with death in a most horrible form clutching at human throats. In the streets below we hear the screams of despair. They mingle with the hoarse cries of the firemen rapidly arriving on the scene and the rumble and roar of engines and trucks.

The lurid red of the flames now leaping up around the doomed building adds color to our imagination; the screams of the helpless victims rend us to the soul. In a fever of excitement we cry out in voices strained in emotion, “Raise a ladder!” “Get a rope!” “Do something; can't you do something?” But nothing can be done. No one can live in that smoke and flame. Approach to the building is impossible. A few weak streams of water are thrown on the fire and are licked up gleefully by the flames.

A face appears at a window, then another and another. Poor souls! they are white with fear; no more cries are heard. One jumps and is broken to pieces on the pavement. Another attempts to leap and falls unconscious on the window sill where the flames burn the body past recognition. As a prologue, the blackened remnants of humanity are carted to a morgue and solemnly laid in a row for identification.

Out! Out! Oh! God, out! The cry comes to us in our dreams. It comes to us from the charred lips of those martyrs, martyrs to human stupidity. It rises from the tomb where the earthly remains of those who were near and dear to us were laid with many tears. Oh, that God had given us understanding! Oh, that the curse of stupidity had been removed from us! We might still have our loved ones with us. We might again live in their loving embraces. Life again would be a joy and not a burden. He knew this terrible tragedy might happen. Our eyes had been opened many, many times to the danger. Thousands of other people in past years had met death in the same horrible way that we might live and learn. But we took a chance.

It had happened elsewhere, to be sure, but it might not happen here. We staked our all on one throw and lost.

Why didn't we put in just one more stairway? Even a door that couldn't be locked might have saved them. Why didn't the law compel an approved fire escape to be put on the building? Alas, these are fruitless ravings. We might have done this or that. We can see now what should have been done. But one thing we know and the knowledge staggers us with the recollection of the heavy fragrance of the fresh graves upon us. Our loved ones are gone. They might have been saved. It would not have cost much money but money was worth more than lives. Judgment and reason had been ensnared in the greed for gold. So the old story was told all over again. The fire department was criticized; the building department was excoriated; everybody blamed everybody else; and the scene is laid for a fresh catastrophe.

I have not attempted to tell the story of any particular event. I have merely described what any fire might be and which many have been. Have I overdrawn the picture? You know better than that. I could not. Words cannot paint the picture as it stands out against the background of the blue sky of heaven. Have I overdrawn it? Ask those who with bitter weeping laid to rest all that the fire had left of their husband, sister, brother, wife; ask those who passed through the inferno of smoke and flame, and who lay for weeks hovering at death's door!

No, the picture is not overdrawn and, furthermore, it depicts a condition which we face every day of our lives. Every day we walk into a fire trap and never think to give thanks that the angel of death did not appear while we were there. Every week we attend theatres, churches, lodge meetings where, of the cry of “fire” were raised, the ensuing catastrophe would be recorded in the annals of great disasters. But we must remember that ever so often the wheel stops at the fateful number, and it will be our turn to pay the fiddler.

Are these great tragedies to pass on into history without leaving some lesson for us? Are all those sufferings to have been in vain? No, there is a lesson, a lesson that grows and grows in importance as each new calamity takes its toll. It is a lesson that overshadows every other, and there are many others, too. It is expressed in the one word “Egress,” or, better yet, “Out.” “Out,” that is it. As living human beings our first thought is to preserve our lives; to get out of the building; to get out where there is air and life.

Isn't this simple? Standing in the shadow of a great calamity like the Iroquois Theatre fire in Chicago or the Missouri Athletic Club

fire in St. Louis, it is even absurd; it is almost enough to make a child laugh. And yet we go right on putting up buildings of combustible construction without providing proper means of egress. As an example—within three months after the school house fire in Collinwood, Ohio, in which one hundred and sixty little children lost their lives a plan for an exact duplicate of the building was submitted for approval.

This is only an instance of what every building inspector knows is repeated every day. Worse still, every effort to require more and adequate means of egress is fought bitterly. The Boatmen's Building, St. Louis, Mo., in which the Missouri Athletic Club was situated, was condemned long before the fire which was pronounced the worst in the history of St. Louis. The Building Commissioner, having been notified of the dangerous condition in the building, made an inspection and ordered two fire stairways to be put in. This was objected to and a court proceeding was commenced. After interminable wrangling on the part of the club owners a compromise ruling was obtained; but the original orders of the Building Commissioner, designed for the protection of the club members themselves, were never enforced. Yea, verily, the lesson is for children,—adults seem not to be able to see past the ends of their noses.

Why can't we have adequate means of egress from our buildings? Is it a question of cost? Rarely. Is it a question of inconvenience? Occasionally. Is it a question of architectural taste? It need not be. In my humble opinion it is principally a question of indifference, of ignorance. The probable chance of disaster is weighed against cost, convenience and taste. The builder judges from events within the range of his own experience; and, as his experience is necessarily limited and of narrow proportion, and as the other matters seem to be of immediate importance he tips the scale in favor of cost, convenience and taste, and trusts to luck. Isn't his true in almost every instance? But how foolish it seems when confronted with the dire consequences. It is at his point that the sovereign authority of the state should be exercised and adequate means of egress required on every building.

In considering the question of egress, what is the fundamental principle? I say it is this: With one or two minor exceptions every building should have at least two effective means of egress located as far apart as practicable and opening onto a public thoroughfare. And these should be required regardless of the type of construction. I venture the assertion that if there had been two such means of egress on any of the buildings in which there has been great loss of life by fire and by panic, that not over one in ten of those who were killed would have lost their lives. This is only an assertion, but I believe it is abundantly supported by the evidence. The able general always tries to leave two lines of retreat open; the wise banker never risks the fortunes of the bank on one investment. And when it comes to human lives we should always play the game

safe; we should give ourselves at least two chances.

There are, of course, subsidiary principles in the matter of egress. The number and size of all means of egress should be increased as the standard of construction is lowered, the number of occupants increased, or the occupancy changed to one of a more hazardous nature. As to standard of construction, we might say that the number of ways of egress should increase inversely as the standard of construction. As the probabilities of danger increase the means of escape should increase. The building is the least consideration. Get the people out and let it burn.

It is obvious that a building designed for occupancy by a large number of people should have more ways of egress than one designed for a smaller number of people. A theater, for instance, should have many more means of egress than an office building of the same type of construction. Of course, in the case of a theater the reason is as much the hazardous nature of the occupancy as it is the disparity in numbers of occupants, but the rule holds good just the same. The principle as to the hazardous nature of the occupancy becomes more hazardous.

So much for the number of means of egress. How about the cost? I will admit that in some cases to put in an adequate number of means of egress may increase the cost of construction. This, of course, depends on the particular means of egress employed. A mere exit opening in the auditorium wall of a theater is less expensive than a solid wall. On the other hand, a tower fire escape is perhaps more costly than an ordinary stairway. I think the principal element of cost is the room or space taken up by the means of egress. This room or space is valuable, and in many cases can be made to yield a revenue. However, in by far the majority of cases there is enough unoccupied space on the lot to allow for the construction of additional means of egress; and, on the same principle that we insist that a certain percentage of the lot occupied by a tenement house be left vacant, we have a right to insist that a certain percentage of the lot on which a building stands that is occupied by a large number of people, should be used in providing adequate and effective means of egress. While every person should be secure in the enjoyment of property and in the income derived therefrom, they certainly have no right to stake human lives against a few additional dollars of revenue.

The question of convenience is perhaps a larger question than it seems at first. In dwelling houses, for instance, two independent means of egress might constitute a decided inconvenience to the owner or occupant, and yet where dwelling houses are of frame construction and three stories in height the necessity for two means of egress is just as imperative as it is in any other class of buildings. We must remember that while buildings may be designed principally for a certain class of occupancy, they may at times be used for different purposes. For instance, a short time ago it came to the writer's atten-

tion that one hundred people were congregated in a small dwelling. In this case the dwelling really became an assembly hall, and as such it certainly should have had two means of egress. Convenience is also a serious consideration in the case of buildings which are difficult to patrol, such as large tenement houses, office buildings, factories, etc. Every means of egress constitutes a means of ingress, and exposes the property to the depredations of thieves and "second-story men." However, I think this objection can be obviated with a little extra care by the owner or occupant.

The question of architectural taste is not trifling by any means. The writer recently saw a picture of a pretentious hospital building which was completely disfigured by two immense, very unbeautiful, iron fire escapes extending across the facade. We all know many other cases where the architectural beauty of the building is ruined by external means of egress; and in some cases the architectural arrangement is hampered in caring for internal means of egress. But after all beauty should be subordinate to safety, and the architect should be required to work out the problem of beauty combined with safety.

So far I have purposely avoided mentioning any particular means of egress. Of course, any door, stairway, or passageway leading to an opening in the building may be termed a means of egress. What we mean, however, by the expression, "means of egress," is a safe means of egress. What is a safe means of egress varies under different conditions. It may depend largely on the type of construction and the nature of the occupancy of the building. Generally speaking, all means of egress should be protected by enclosures built entirely of fire-resisting materials; that is to say, materials that are not combustible. This includes walls, stairways, doors and trimmings.

Without considering the ordinary means of egress from a building, I wish to compare the few means of egress designed especially for emergency exit. These are the outside fire escape, the tower fire escape, the horizontal exit through fire walls and the enclosed stairway. There are objections to all of these particular means of egress. The outside fire escape has been much abused. It really ought to be a very safe means of egress. An outside fire escape constructed as a stairway with a pitch not exceeding forty-five (45) degrees, amply supported, hooded, with sheet metal treads or treads of non-slipping material, and opening onto a public thoroughfare or onto an unoccupied space leading to a public thoroughfare, and without passing across windows or other openings ought to be an ideal means of exit. The ladder fire escape should never under any circumstances be permitted. It never was intended as a fire escape. It was first intended as a means of ingress for firemen in entering the building in case of fire. The trouble is that outside stairway fire escapes are constructed as cheaply as possible with the view of complying with the letter of the law, and not with the view of really providing a safe means of egress.

The value of the fire tower as a safe means of egress is, in the writer's opinion, still subject to demonstration. The objection to the fire tower is the cost of construction, which certainly restricts the number of them in any one building and, as a corollary thereto, the difficulty of access to the tower. If access to a fire tower could be had directly from every floor area not over a certain size, and if enough towers could be provided to relieve congestion in moments of emergency, I believe that the fire tower would be superior to other emergency means of egress. But there is the difficulty. Access to a fire tower is more or less easy in a fireproof building; but in a building of combustible construction, access to a tower might be very difficult. In fact, in many cases it is impossible. Another serious objection to the tower fire escape is the infrequency of its use. Being enclosed it is necessarily dark, at least in places, and consequently is not much used. It becomes a store room for all kinds of miscellaneous apparatus and rubbish appurtenant to the building, and the occupants hesitate to explore its cavernous depths in times of emergency. Other ingenious, although futile, means of egress, such as sliding or chute fire escapes which are sometimes constructed in the form of a tower, should absolutely be prohibited. The horizontal exit through a fire wall, in some respects affords the safest and quickest means of egress from a burning building. It is, of course, based on the theory that a fire does not start in a building at more than one place at a time. If fire walls extended from the foundation to the roof of a building it is safe to assume that some portion of the building would be free from fire. Consequently a horizontal exit through a fire wall to another section of the building provided with means of egress to the street, would afford a quick and safe means of egress from the building. In recognition of this fact, the Industrial Commission of Wisconsin have provided in their code for a horizontal exit to an adjoining building. This means of egress is perfect in theory and in practice; but it is difficult in many cases, to construct a building with this means of egress. In the first place, it contemplates a large building and a large number of occupants; otherwise, the cost would be prohibitive. It also contemplates a safe and adequate means of egress from each section of the building.

I have purposely discussed the other means of egress before considering the enclosed stairway. I believe that the enclosed stairway is the most practical and the most efficient safe means of egress from a building. It has most of the advantages of the outside stairway fire escape, practically all the advantages of the fire tower and all the advantages of the horizontal exit. In addition it is the regular means of ingress and egress used by the occupants. This last is a consideration of the greatest importance, as we well know that people invariably seek to leave by the same means by which they enter. Its cost is little; it affords a means of horizontal exit on every floor; it is available from every section of the building, for each section of

the building should have at least one stairway; if provided with self-closing fire doors it is practically smoke proof, at least in the early stages of the fire, and it leads directly to a public thoroughfare. The only serious objection to the enclosed stairway is the matter of doors and door openings, and the question of draft. No stairway should be continuous from the top to the bottom of the building; but each flight should be accessible to succeeding flights through enclosed spaces at floor levels. These enclosed spaces should be provided with self-closing fire doors, and there should be a severe penalty for locking or propping these doors open.

Different classes of buildings each present different problems as to means of egress to be employed. In theaters and places where large numbers of people assemble the most imminent danger is the panic danger. The panic risk calls for many means of egress, easy and quick of access. The standard of construction of building of this type is today very high. The danger, therefore, is less of fire than of panic. At Calumet, Mich., last December, when seventy-two women and children lost their lives in a panic in an assembly hall there was no fire at all,—but there was only one means of egress. The panic fear seems to increase geometrically as the means of egress is impeded, and conversely it subsides geometrically as egress is accelerated.

In buildings of other classes, such as factory buildings, the danger is a fire danger; and consequently, more importance should be attached to the fireproof character of the means of egress. And so on with other classes of buildings; but I contend that the fatal problem is always one of adequate means of egress, and that every other consideration should be sacrificed to this one all important consideration. It is only in this way that we can prevent a repetition of the numerous holocausts which shock us, and which really are a disgrace, and a reflection on our intelligence and on our ability.

FRENCH PARKS.

"In France the parks are laid out on more formal lines than in America," says Charles Gibson, in "The Boston Transcript." "These lines are straight and the whole scheme is usually carefully balanced. This is characteristic of French architecture as well as of their artificial landscapes. Poplar trees are used because of their straight and formal appearance, and everywhere are broad vistas, many of them so formal as to appear to have been carved out with geometrical exactness.

"Italian parks and gardens offer a different variety from either the English or the French parks, and the further south you go in that country the greater the representation of life is increased in the Italian architectural ornamentation and sculpture. Statuary, fountains, waterfalls constructed on the sides of hills, staircases, etc., are frequent and over all there is often a more or less funereal aspect, caused by the dark green of the trees used in their parks, and the many shady places.

"The parks of Europe are used more for recreation purposes than our American parks. This is especially so of those parks that are located nearer the sections occupied by the masses, and sometimes so elsewhere. In Hyde Park, London, for example, there is much activity in such recreations as riding, games of various kinds, and horticultural exhibits for the people. We have approached the latter in our beautiful Public Garden, but not to the extent to which it is carried on in some of the English parks, especially in Regents Park and Hampton Court.

"In Europe the lawns and the roadways are better protected than in this country. In Hyde Park they have a large number of small iron chairs painted green, for the use of the people, rather than benches, as we have here. There are lines of these chairs along the famous and fashionable Rotten Row."

RIVALS TO THE PARTHENON.

For beauty of material, accuracy of workmanship and size of the component parts, the men who are building the banking house for J. P. Morgan & Co., in New York City, have sought to rival the Parthenon, which was the most beautiful building ever erected. The Morgan banking house does not resemble a temple, but like the Parthenon its walls have been composed of solid blocks of marble and not merely veneered with marble. The blocks are all three feet high and three feet thick, and according to location are seven to twenty-two feet in length.

As in the Parthenon, the corners are so accurately cut that the joints are almost invisible. The quarries at Knoxville, Tenn., were torn to pieces in order to produce blocks which are not only colossal in size but also flawless in texture. Some of the blocks weigh thirty-eight tons. They were shipped from the quarries in the rough and cut in New York City.

FOR CLEANING STONEMWORK.

Frequent inquiries are made of this magazine for methods of cleaning stone. The use of acids is generally to be deprecated, because they tend to injure the texture of the stone. The following suggestions are given by an English Paper. "Equal parts of muriatic acid and water will remove spots of mortar on brick or stonework, but it is not the right material for cleaning stone that is begrimed from smoke and dirt. To accomplish this, apply to the surface, with a long-handled fibre brush, a strong solution of caustic solution of pearlash. Let it remain on for about fifteen minutes, then wash several times with clear water, using a stiff brush or broom for the purpose. If this is not effective enough, scrub the stone with a stiff fibre brush, using soft soap and concentrated lye and sand, allowing this to remain on the stone until nearly dry, then rinse with clear water, using a brush to remove cleansing material. Protect the hands with rubber gloves."—"Stone."

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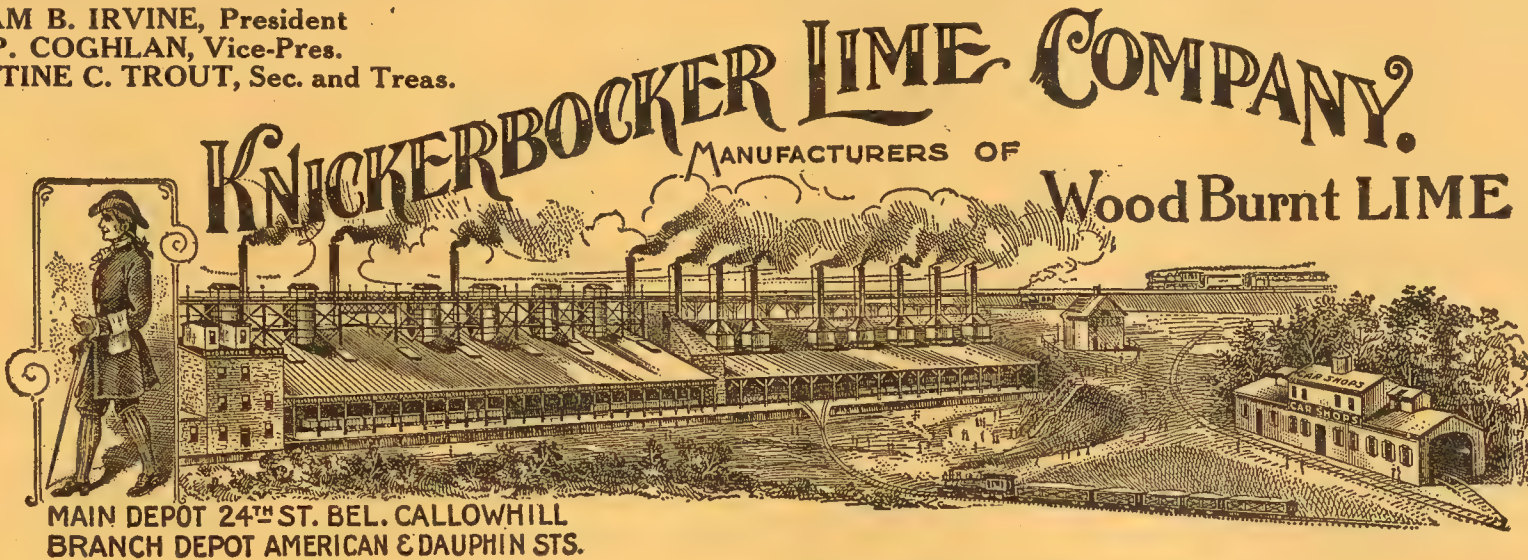
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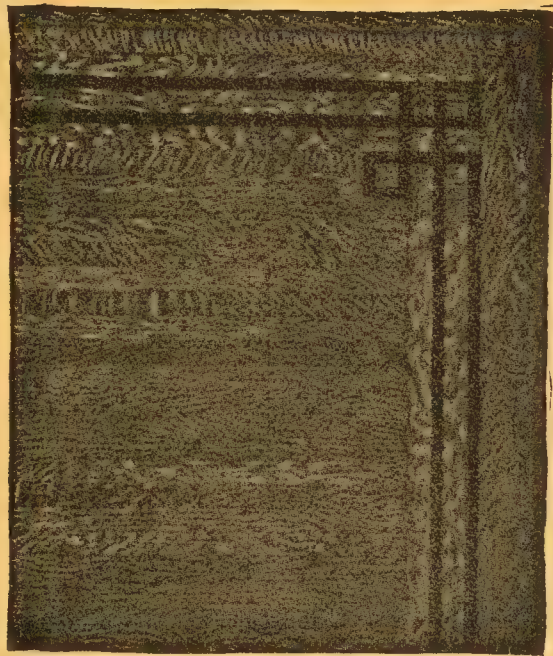
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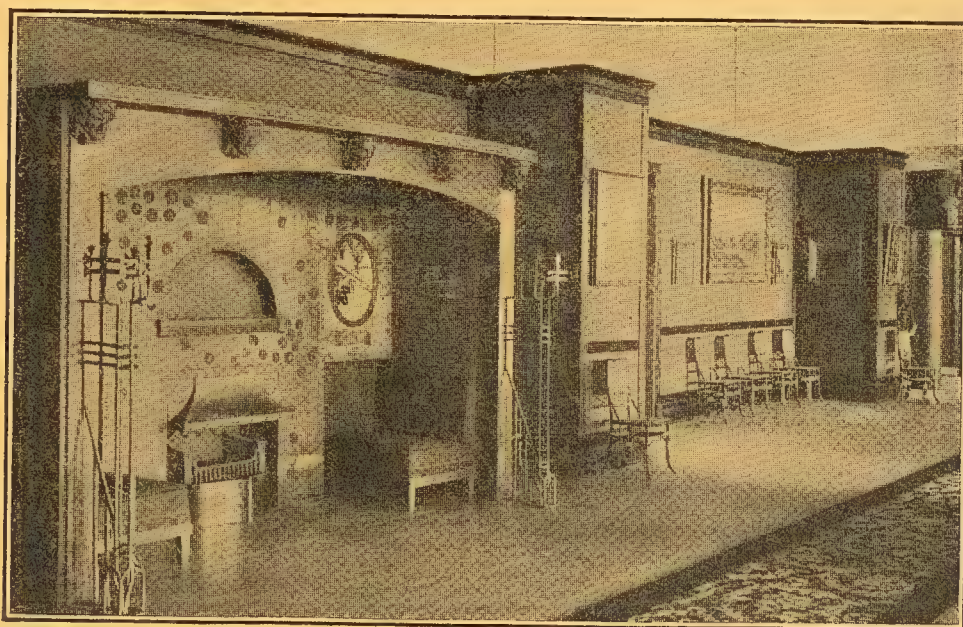
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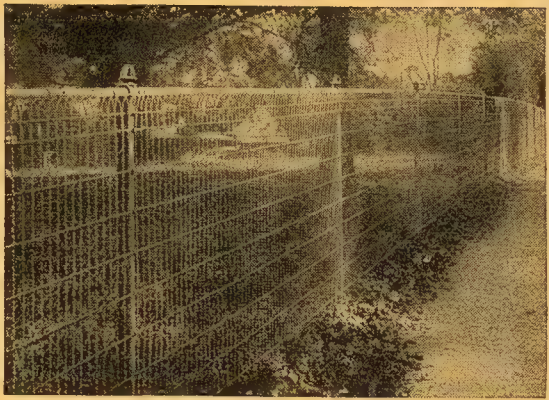
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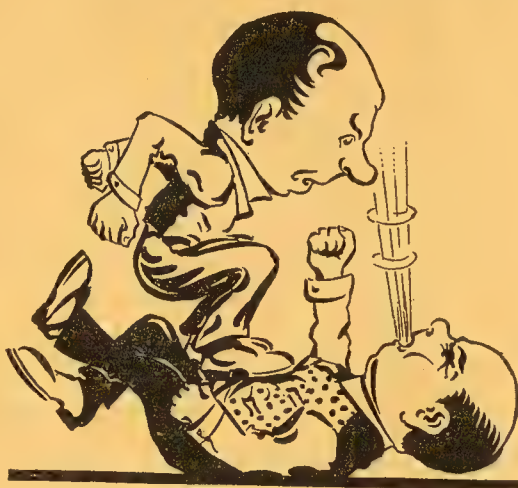
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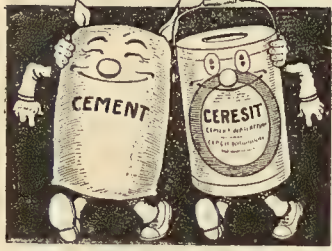
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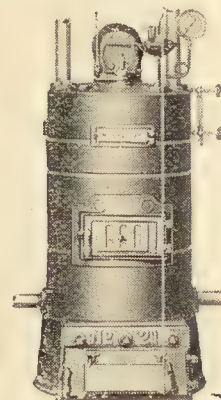


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Vol. XXIX., No. 31.

PHILADELPHIA, WEDNESDAY, AUGUST 5, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory Building, Allegheny avenue and Rosehill street, Phila. Architect, Ivan B. Scovill, care of owners. Owner, Industrial Tape Mills Co., Jasper and Huntingdon sts., Phila., Pa. Brick, 3 stories, 73x225 feet, slag roof, metal sash and frames. Owners have received bids.

Store and Residence, Broad and Tasker sts., Phila. Architect, Harry Raech, 820 Drexel Building, Phila. Owner, John C. Kimmerle, on premises. Brick, 3 stories, 20x160 feet, slag roof, and metal tile roof, metal lath (heating and lighting reserved). Architect has received bids.

Power House (add.), Twentieth and Oregon streets, Phila. Architect, James H. Windrim, Commercial Building, Phila. Owner, Girard Estate, Phila. Brick, concrete and steel, 1 story, 67x88 feet, slate and slag roof, metal lath, water-proofing, metal sash and frames. Architect taking bids due August 7th. The following are figuring: H. H. Burrell, 1202 Chancellor street; F. W. Van Loon, Denekla Building; Jacob Myers & Sons Co., Witherspoon Building, Pomeroy Construction Co., 1609 Ranstead street; James G. Doak & Co., Crozer Building, and J. S. Cornell & Sons, Land Title Building, all of Phila.

Store (alt.), 17 and 19 North Thirteenth st., Phila. Architect, Charles E. Oelschlager, Harrison Building Phila. Owner, name withheld. Brick, 3 stories; consists of new bulk windows and interior alterations and electric lighting. Architect has received bids.

Hotel (alt. and add.), 509-11 South Fifth street, Phila. Architect, F. N. Greisler, Lafayette Building, Phila. Owner, M. Leblang, on premises. Brick, 3 stories, 36x75 feet, electric lighting, steam heating, hardwood floors. Architect taking bids, due August 11th. Stacy Reeves & Sons, 2011 Market street; E. E. Hollenback, Fifteenth and Race streets; Joseph Bird Co., 213 North Eleventh street; Monaghan & Losse, 214 South Twelfth street; B. Bornstein, 412 South Fifth street, Phila., are figuring.

Residence and Garage, Sixty-fourth street and Church road, Phila., \$18,000. Architect, Charles Barton Keen, Bailey Building, Phila.

Owner, A. Helmar Englund, Seventeenth and Cambria streets, Phila. Brick, 2½ stories, 50x60 feet, tile roof, hardwood floors (heating and electric work reserved). Architect taking revised bids due August 10th. Milton W. Young, Overbrook, Pa.; W. J. Gruhler, 219 High street, Gtn.; George L. Croll, Rosemont, Pa.; John N. Gill Co., Heed Building, are figuring.

Residence, Roxborough, Phila. Architect, Simon & Bassett, 1112 Chestnut street, Phila. Owner, William J. Galt, Wigard street and West Ridge avenue, Phila. Stone, 2½ stories, 30x45 feet, slate roof, electric lighting, hot water heating, hardwood floors. Plans in progress. Bids in two weeks.

Ware house (add.), Penn and Unity streets, Frankford, Phila. Owner, Frankford Grocery Co., Penn and Unity streets, Frankford. Brick and concrete, 1 and 2 stories, 87x175 feet, slag roof. Plans in progress.

Store (alt. and add.), 3924 Market street, Phila. Architects, Henon & Boyle, 10 South Eighteenth street, Phila. Owner, M. J. Callahan, on premises. Brick, 1 story, slag roof, hot water heating, electric lighting. Architects have received bids.

Cottage (33), Cambria and Cedar streets, Phila. Owner, Octavia Hill Association, 613 Lombard street, Phila. Brick, 2 stories, 15x30 feet, slag roof. Architect taking bids due August 7th. H. P. Schneider, York road and Erie avenue; Mitchell Bros., 2125 Race street; H. E. Baton, Twelfth and Sansom streets, and F. C. Michaelson, 211 South Forty-seventh st., all of Phila., are figuring.

Residence, Somerton, Phila. Architect, H. L. Reinhold, 1309 Walnut street, Phila. Owner, Cameron Worthington, care of Central Trust & Savings Co., Fourth and Market sts., Phila. Hollow tile and plaster, 2½ stories, 32x35 feet, shingle roof, hot water heating, electric lighting, oak floors. Architect taking bids due August 10th. K. E. Bonney, Parkway Building, Phila., and C. A. Shock, Parkland, Bucks Co., Pa., are figuring.

High School for Girls, Broad street and Snyder avenue, Phila \$700,000. Architect, J.

Horace Cook, Land Title Building, Phila. Owner, Board of Education, City Hall, Phila. Stone, steel and concrete, 4 stories, 212x226 feet, slag and slate roof, enamel brick, metal lath, metal sash and frames, water-proofing, damp-proofing (steam heating and electric lighting separate bids), proposal bond. Owners taking bids due August 14th. James K. Doak & Co., Crozer Building; Charles McCaul Co., 1713 Sansom street; Cramp & Co., Denekla Building; Thomas Reilly, 1616 Thompson street, all of Phila., are figuring.

Residence, Cliveden street, west of Lincoln Drive, Gtn. \$10,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Phila. Owner, name withheld. Stone, 2½ stories, 36x43 feet, slate roof, hot water heating, oak floors (electric work reserved). Architects taking bids due August 5th. The following are figuring: A. Whitehead, Inc., 1624 Latimer street; H. P. Schneider, 3715 Old York road; J. Paul Emrey, North Wynnefield; W. J. Cowell, 943 East Cheltenham avenue; William C. Wright, 22 Harvey street; Samuel Harting, 20 East Johnson street, all of Phila.

Passenger Station (alt. and add.), Wayne Junction, Phila. Architect, William Hunter, Reading Terminal, Phila. Owner, Philadelphia & Reading Railway Co., Reading Terminal. Brick, 1 story, slag and tile roof, hot water heating, electric lighting, enamel brick, elevator, waterproofing, carborundum treads. Owners taking bids due August 10th. H. E. Baton, Twelfth and Sansom streets; A. L. Carhart, Hale Building; F. A. Havens & Co., 845 North Nineteenth street; F. W. Van loon, Denekla Building; F. L. Hoover & Sons, 1023 Cherry street; Irwin & Leighton, 126 North Twelfth street; Charles Gilpin, Harrison Building, all of Philadelphia, are figuring.

Stores and Offices (alt.), 202 South Fifteenth street, Phila. Architects, Duhring, Okie & Zeigler, Bailey Building, Phila. Owner, Mrs. George Strawbridge, on premises. Brick, 3 stories; consists of new bulk windows and interior alterations, slate roof, metal lath (electric work reserved). Architects taking bids due August 7th. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street;

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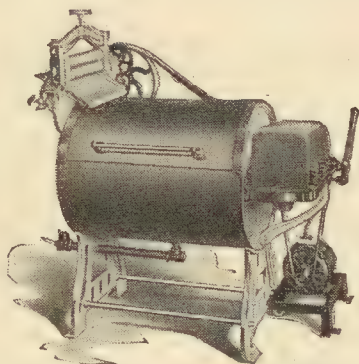
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R. C. Ballinger & Co., 218 North Thirteenth street; F. B. Davis, 240 North Sixteenth street; Joseph Bird Co., 215 North Eleventh street; J. Sims Wilson, 1125 Brown street, and H. E. Grau Co., 1709 Sansom street, all of Phila., are figuring.

Building (alt. and add.), 614 Locust street, Phila. Architect, Louis C. Baker, 34 South Seventeenth street. Owner, Central News Co., on premises. Brick, 3 stories, 46x198 feet, slag roof, steam heating, electric lighting, steel rolling doors. Architect taking bids due August 10th. H. E. Baton, Twelfth and Sansom streets; J. P. Thompson, Real Estate Trust Building; James G. Doak & Co., Crozer Building; Fidelity Construction Co., Heed Building, all of Phila., are figuring.

School, Cheltenham, Pa. \$25,000. Architect, H. C. Wise, Franklin Building Phila. Owner, Board of Education, care of J. Holden, Fox Chase, Pa. Brick, 2 stories, 52x75 feet, slate roof (heating and lighting separate bids), metal lath, safety treads. Architect taking bids due August 5th. In addition to those previously reported, Edw. Fay & Sons, 2 South Mole street; P. J. Hurley, 1233 Cherry street; Joseph Ashby, Fox Chase, Phila.; John McKenna & Sons, 1032 Race street; Berry-Goodwin, Drexel Building; F. Roe Searing, Perry Building; George Hogg, 1634 Sansom street; Mitchell Bros., 2125 Race street; Alexander Chambley, 243 South Tenth street; H. H. Wehmeyer, 1004 West Lehigh avenue; W. John Stevens, Wyncote, Pa.; Bailey-Lush Co., 201 North Broad street, all of Philadelphia, are figuring.

Residences (17), Seymour and Morris sts., Gtn. Architect, private plans. Owner, H. W. Bauer, 141 West Loudon street, Gtn. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, oak floors. Plans in progress.

Residence, Fox Chase, Phila. \$7,000. Architect, Christian H. Fries, 8129 Pine Road, Fox Chase, Phila. Owner, Dr. John Sibald, Second Street Pike, Fox Chase, Phila. Plaster, 1½ stories, 60x50 feet, shingle roof, hot water heating, electric lighting, composition floors. Revised plans in progress. Bids in ten days.

Passenger Station (alt. and add.), Wayne Junction, Philadelphia. Architect, William Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Rading Trminal. Brick, 1 story,

slag and tile roof, hot water heating, electric lighting, enamel brick, elevator, waterproofing, carborundum treads. Owners taking bids, due August 10th. The following are figuring, in addition to those previously reported: Stacey Reeves & Sons, 2011 Market street; Roydhouse Arey Company, Fidelity Building; Armstrong & Latta, Land Title Building; J. E. & A. L. Pennock, Land Title Building.

Alterations for Apartments, 1737 Mt. Vernon street. Architect, H. L. Reinhold, 1309 Walnut street. Owner, Edward Hutchinson, 122 South Thirteenth street. Brick, 3 stories, slag roof, electric lighting (heating separate bid). Architect taking revised bids, due August 6th. The following are figuring: M. Roy Sheen, 450 North Wilton street; K. E. Bonney, Parkway Building.

Hospital (alt. and add.), Seventeenth and Vine streets. Architect, H. L. Reinhold, 1309 Walnut street. Owners, Charity Hospital, on premises. Brick, 4 stories, slag roof, hot water heating, electric light. Architect taking revised bids, due August 6th. The following are figuring: M. Roy Sheen, 450 North Wilton street; K. E. Bonney, Parkway Building.

Factory, Fifty-ninth and Woodland avenue. Architect, Harry Parker, Drexel Building. Owners, Fairmount Electric Manufacturing Company, care of E. Patterson, 2203 Pearl street. Brick, 2 stories, 45x100 feet, slag roof (electric light and heat reserved). Owners taking bids, due August 5th. George Hogg, 1624 Sansom street, and McCloskey & Bahls, Hale Building, are figuring.

Store Building (alt. and add.), Thirteenth and Cherry streets. Architect, C. E. Oelschlager, Harrison Building. Owner's name withheld. Brick, 5 stories, slag roof (heat, light and electric reserved), 2 new toilet rooms. Architect taking bids, due August 5th. The following are figuring: Stacey Reeves & Sons, 2011 Market street; E. J. Kreitzburg, 1345 Arch street; P. J. Hurley, 1233 Cherry street; I. T. Shoemaker, 1309 Walnut street; Frank Lucci, 1345 Christian street.

Residence, Germantown. Architect, Spencer Roberts, Weightman Building. Owner, Charles C. Wriggins, 1122 Chestnut street.

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Stone, 2½ stories, 28x55 feet, wing 10x20 feet, shingle roof, electric light, hot air heat, oak floors. Architect taking bids, due August 10. The following are figuring: F. B. Davis, 240 North Sixteenth street; T. C. Trafford, 1613 Sansom street; J. Myers & Sons, Witherspoon Building; William R. Dougherty, 1608 Sansom street; J. Sims Wilson, 1125 Brown street; W. J. Gruhler, 219 High street; Thomas Little & Sons, 1723 Moravian street; I. A. Dunkelberger, 71 East Herman street; M. S. Oberholtzer, 5524 Pulaski avenue.

Garage, Willow Grove and Germantown avenue. Architect, S. A. Stoneback, 2301 North College avenue. Owner, Mrs. A. R. Snyder, 7942 Germantown avenue. Stone, 2 stories, 76x84 feet, slag roof, hot water heat, electric light, dampproofing, metal lath. Architect taking bids, due August 10th. The following are figuring: E. E. Hollenback, Fifteenth and Race streets; Burd P. Evans, Thirtieth and Wallace streets; Pringle Borth, 8018 Germantown avenue; E. C. Bailey pany, 201 North Broad street; T. C. Ford, 1613 Sansom street.

Apartment House, 1330 and 1332 Pine street, \$40,000. Architect, Richard C. Loos, 1017 Chestnut street. Owners, Yarrow & Van Pelt, Morris Building. Brick, fireproof, 6 stories, 32x77 feet, slag roof, electric light, hardwood floors, vapor vacuum heat, metal lath, elevators. Architect taking bids, due August 15th. The following are figuring: F. A. Havens & Co., 845 North Nineteenth street; L. S. Harris Crozier Building; J. C. Driscoll, Hale Building; D. H. Rapp, Millersville, Pa.

Warehouse (add.), Delaware avenue and Tasker streets. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, John T. Bailey Company, on premises. Brick and concrete, 2 stories, 41x64 feet, slag roof, steam heat, electric light, metal lath, steel rolling doors, metal sash and frames. Architect taking bids, due August 10th. The following are figuring: Stacey Reeves & Sons, 2011 Market street; H. E. Grau, 1709 Sansom street; W. R. Dougherty, 1608 Sansom street; P. Haiback Const. Co., Twenty-sixth and Thompson streets.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 1913 Spruce st., Phila. Architect, E. H. Fetterolf, 1524 Chestnut street, Phila. Owner, Dr. George M. Piersol, 1913 Spruce street, Phila. Consists of interior alteration, electric lighting, hardwood floors. Contract awarded to A. R. Raff, 1635 Thompson street, Phila.

Power House, Twenty-sixth and Christian streets, Phila. \$1,000,000. Architect, J. T. Windrim, Commonwealth Building, Phila. Owner, Philadelphia Electric Co., Tenth and Chestnut streets, Phila. Brick, steel and concrete, 3 stories, 145x362 feet, slag roof, metal lath, water-proofing, cast iron treads, metal frames and sash. Contract awarded to Fidelity Construction Co., Heed Building.

Residence (alt. and add.), 1507 Locust st., Phila. Architects, Brockie & Hastings, 1713 Sansom street, Phila. Owner, Dr. Charles J. Jones, on premises. Brick, 4 stories, hot water heating, electric lighting, consists of interior alteration and addition. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Factory Building, Comly and Milnor sts., Phila. \$45,000. Architects, Ballinger & Perot, 1211 Arch street, Phila. Owner, Quaker City Rubber Co., 629 Market street, Phila. Brick, steel and concrete, 4 stories, 79x159 feet, slag

roof, electric lighting, metal sash and frames, water-proofing, elevators. Contract awarded to Turner Concrete Steel Co., 1713 Sansom st., Phila.

Fraternity House, 3533-35 Locust street, Phila. \$23,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Phila. Owner, Delta Tau Delta, 3533 Locust street, John Costello, Chairman Building Commission, Commercial Trust Building, Phila. Brick, 3 stories and basement, 35x86 feet, slate and slag roof, vapor vacuum heating, electric lighting. Contract awarded to H. H. Burrell, 1202 Chancellor street, Phila.

Bank (alt. and add.), Twenty-first and Bainbridge streets, Phila. \$7,000. Architect, W. D. Haddock, care John Wanamaker, Phila. Owner, First Penny Saving Bank, on premises. Brick, 3 stories, 32x83 feet, slag roof (heating and lighting reserved), metal ceilings. Contract awarded to James Johnston, 1721 Ludlow street, Phila.

Residence (alt. and add.), 4431-33 Spruce street. Architect, Stanley Yocum, 5517 Morris street, Germantown. Owners, Kuhn & Rump, on premises. Stone and concrete, 35x30 feet, slate roof, electric light, tile floors, consists of new porch. Contract awarded to Smith-Hardican Company, 1606 Cherry street.

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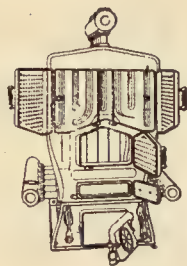
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PENNSYLVANIA Construction News

Masonic Temple, Wilkes-Barre, Pa. \$75,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Masonic Temple, H. N. Rust, Chairman Building Committee, Masonic Temple, Wilkes-Barre, Pa. Brick and terra cotta, 4 stories, 58x120 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, water-proofing and damp-proofing, safety treads, metal windows, steel lockers, dumb-waiter. Plans in progress.

Apartment House, Scranton, Pa. \$10,000. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, William J. Matthews, 610 North Main street, Scranton, Pa. Frame, 3½ stories, 34x45 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Residence, Scranton, Pa. \$10,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owner, Frank X. Burk, 1108 Marion street, Scranton, Pa. Brick and stucco, 2½ stories, 30x47 feet, slate roof, steam heating, gas and electric lighting, hardwood floors, tile work, damp-proofing, metal lath. Architect has received bids and will soon award contract.

Residence, Scranton, Pa. \$7,000. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Col. R. A. Phillips, 721 North Main street, Scranton, Pa. Frame, 2½ stories, 39x28 feet, slate roof, steam heating, gas and electric lighting, metal lath. Architect taking bids due August 7th.

Residence, Lansford, Pa. \$10,000. Architects, Pettebone & Lewis, Second National Bank Building, Wilkes-Barre, Pa. Owner, W. G. Thomas, Lansford, Pa. Frame, 2 stories, 32x60 feet, asbestos shingle or slate roof, steam heating, electric lighting, hardwood floors, promenade tile porch floor, metal lath. Owner is taking bids.

Residence, Lansford, Pa. \$10,000. Architects, Pettebone & Lewis, Second National Bank Building, Wilkes-Barre, Pa. Owner, W. G. Thomas, Lansford, Pa. Frame, 2 stories, 32x60 feet, asbestos shingle or slate roof, steam heating, electric lighting, hardwood floors, promenade tile porch floor, metal lath. Owner is taking bids.

Comfort Station, Scranton, Pa. \$25,000. Architect, J. S. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, City of Scranton, City Hall, Scranton, Pa. Stone, brick and steel, 1 story, electric lighting, tile and marble work. Plans in progress.

Repair Shops, Wilkes-Barre, Pa. \$300,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Lehigh & Wilkes-Barre Coal Co., Wilkes-Barre, Pa. Brick and concrete, 1 and 2

stories, consists of machine shop, blacksmith shop, boiler and structural shop, car shop, wheelwright shop, carpenter shop, oil house sheds, etc., asbestos roof, electric lighting, steam heating, metal sash, oil tanks and pumps, electrical equipment and cranes. Plans about completed. Architects will soon take

Mausoleum, Shanertown, Pa. \$50,000. Architect, George S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Northeastern Mausoleum Co., Connell Building, Scranton, Pa. Marble, 57x85 feet, asphalt and promenade tile roof, bronze windows and doors. Plans completed. Owners will sub-let all contracts.

Garage, Ardmore, Pa., \$50,000. Architect, John Charles Norton, Bryn Mawr, Pa. Owner, David Dallas, Eleventh and Arch streets, Phila., and Ardmore, Pa. Brick and concrete, fireproof, 2 stories, 45x200 feet, Carey's steam heating, electric lighting, concrete floors, metal sash and frames, metal lath. Architect has received bids.

Roof Garden, Bryn Mawr, Pa. \$4,000. Architect, John Charles Norton, Bryn Mawr, Pa. Owner, name withheld. Frame, 29x40 feet, Carey's roof, hot water heating, electric lighting. Architect ready for bids.

Hospital, Wilkes-Barre, Pa. \$150,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Wilkes-Barre Private Ward Hospital, Wilkes-Barre, Pa. Brick, terra cotta and steel, 4 stories, promenade tile roof, electric lighting, steam heating, tile and marble work, 3 elevators. Plans about completed. Architects will take bids in about three weeks.

School, Plymouth Meeting, Pa. \$27,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, I. Harold Shoemaker, Secretary, R. F. D., No. 2, Conshohocken, Pa. Brick, 2 stories, 50x90 feet, slag roof, metal lath, metal ceilings, slate blackboards (heating, electric work, plumbing separate bids). Owners taking bids due August 10th, 8 P. M. Specht & Sperry, Heed Building, and Alexander Chambley, 243 South Tenth street, Philadelphia, are figuring, in addition to those previously reported.

School, Connaughton, Pa. \$5,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Phila. Owner, Plymouth Township School Board, I. Harold Shoemaker, Secretary, R. F. D. No. 2, Conshohocken, Pa. Brick, 1 story, 40x60 feet, slag roof, metal ceilings, slate blackboards (heating, plumbing, electric work separate bids). Owners taking bids due August 10th, 8 P. M. Specht & Sperry, Heed Building, and Alexander Chambley, 243 South Tenth street, Phila., are figuring, in addition to those reported.

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Farm House (alt. and add.), Walnut Hill, Pa. Architects, Zantzing, Borie & Medary, Fifteenth and Walnut streets, Phila. Owner, George H. Lorimer, Wyncote, Pa. Frame, 2 stories, shingle roof, steam heating. Architects taking revised bids due August 5th. The following are figuring: H. H. Burrell, 1202 Chancellor street; W. H. Eddleman, 453 Green Lane, Roxborough, Pa.; F. L. Hoover & Sons, 1023 Cherry street; Joseph Ashby, Second Street Pike, Fox Chase, all of Phila.

Residence, Glenside, Pa. \$6,500. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Phila. Owner, J. W. Purner, Bourse Building, Phila. Plaster, 2½ stories, shingle roof, hot water heating, electric lighting. Architects taking bids due August 5th. The following are figuring: John Morrow Construction Co., 308 South Twelfth street; Specht & Sperry, Heed Building, Phila., and George Blake, M. E. Hauser, G. Krewson, all of Glenside, Pa.

Factory Buildings, Harrisburg, Pa. \$150,000. Engineers, Day & Zimmerman, 611 Chestnut street, Phila. Owner, W. O. Hickok Manufacturing Co., Harrisburg, Pa. Brick, steel and concrete, 1 and 2 stories; consists of machine shop, wood-working shop, office building, garage and stable, power house. Plans in progress.

Church (alt. and add.), Ridley Park, Pa. \$25,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Phila. Owner, Ridley Park Presbyterian Church, Ridley Park, Pa. Stone, 2 stories, 70x120 feet, slate and slag roof, metal frames and sash (heating and electric work, separate bids). Architects taking bids due August 5th. The following are figuring: Pomeroy Construction Co., 1609 Ransstead street; H. H. Burrell, 1204 Chancellor street; Jacob Myers & Sons Co., Witherspoon Building; Joseph Baird Co., 213 North Eleventh street; Milton W. Young, Overbrook, all of Phila.; William Provost, Jr., 1226 Walnut street, Chester, Pa.

Garage (alt. and add.), Cynwyd, Pa. Architect, S. Robert Ross, Narberth, Pa. Owner, William McGeorge, Jr., Cynwyd, Pa. Brick and concrete, 2 stories, tin roof, metal ceilings. Architect has received bids.

Residence, Lansdowne, Pa. Architect, private plans. Owner, William C. Conover, Lansdowne, Pa. Stone, 2½ stories, 46x51 feet, shingle roof, hot water heating, electric lighting, hardwood floors, canvas roof. Owner has received bids.

Hotel (alt. and add.), Devon, Pa. \$50,000. Architect, Frank Seeburger, Pennsylvania Building, Phila. Owner, Company, care of Samuel A. Greenlee, Land Title Building, Phila. Brick 4 stories; consists of 50 new rooms and baths, and general alterations, slate roof, steam heating extension, electric

lighting, tile work. Plans in progress. Architect will take bids in three weeks.

High School, Allentown, Pa. \$250,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Board of Education, Allentown, Pa. Brick, steel and terra cotta, fireproof, 3 stories (heating and electric work separate bids), metal lath, tile and marble work, slate blackboards. Plans completed. Owners will take bids in a few days.

Bank and Office Building, Scranton, Pa. \$200,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Union National Bank, W. L. Connell, President, 420 Lackawanna avenue, Scranton, Pa. Brick, stone, terra cotta and steel, fireproof, 12 stories, 41x85 feet, tile roof, damp-proofing and fire-proofing, wrought iron treads, expanded metal lath, hollow tile fire-proofing (lockers reserved, separate bids for heating, plumbing, electric lighting and power, elevators, incinerator, vacuum cleaning. Architect taking bids due August 10th. Metzger & Fisher, Deckla Building, Phila., are figuring.

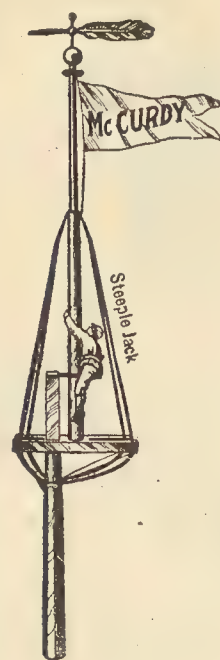
Residence and Laundry (alt. and add.), Ambler, Pa. Architect, Thomas S. Lippincott, Huntingdon Valley, Pa. Owner, John Cadwalader, Jr., 263 South Fourth street, Phila. Brick and plaster, 3 stories, shingle and slag roof, canvas roof (heating and lighting reserved). Architect has received revised bids.

Residence, Elkins Park, Pa. \$10,000. Architects, Borzner & Wood, 721 Walnut street, Phila. Owner, P. C. Ruth, 218 South Forty-sixth street, Phila. Hollow tile and plaster, 2½ stories, 24x55 feet, slate roof, hot water heating, electric lighting, oak floors. Architects taking bids due August 7th. J. Richard Jackson, Perry Building; John Morrow Construction Co., 308 South Twelfth street; E. E. Hollenback, Fifteenth and Race streets; Stacy Reeves & Sons, 2011 Market street; James H. Wells, Heed Building; W. John Stevens, Wyncote, Pa., are figuring.

Residences (3), Highland Park, Pa. Architect, H. Taylor Smith, 6124 Jefferson street, Philadelphia. Owner, Victor A. Hengst, Llanerch, Pa. Stone and stucco, 2½ stories, 32x37 feet, shingle roof, hot water heating, electric lighting. Architect taking bids due August 5th. Smith-Hardican Co., 1606 Cherry street, is figuring.

Fraternity House, Easton, Pa. \$20,000. Architect, C. G. Helick, Sixteenth street and Oxford streets, Phila. Owner, Phi Gamma Delta, Easton, Pa. Brick, 3 stories, 38x60 feet, slate roof, steam heating, electric lighting. Architect has received bids.

Residence (alt. for apartments), Lansdowne, Pa. Architect, Charles W. Denny, Hale Building, Phila. Owner, R. H. Schreiner, care of Architect. Stone, 3 stories, shingle and slate roof, gas lighting, canvas roof. Architect has received bids.



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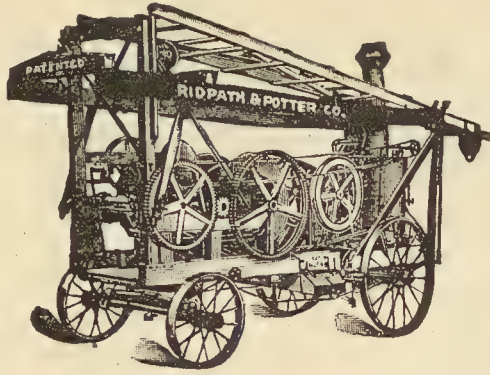
1713 Sansom Street, Philadelphia, Pa.

PENNSYLVANIA

Contracts Awarded

Garfield School (alt. and add.), Duryea, Pa. Architect, Frank J. Miller, People's Bank

Building, Scranton, Pa. Owner, Board of Education, Duryea, Pa. Consists of new heating



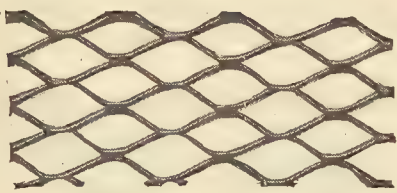
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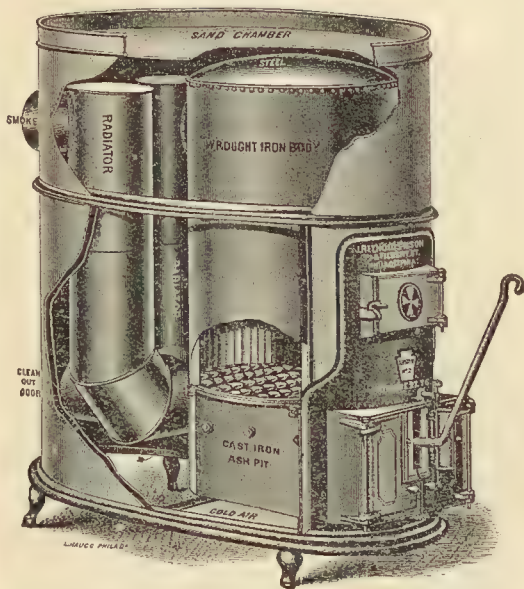
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Perfectly Simple and Simply Perfect

Wrought Iron Construction
No Cement Joints

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Manufacturers of Heaters and Ranges
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system, metal ceilings, slate blackboards, new plumbing. Contract awarded to J. W. Cammer, 544 Front street, Scranton, Pa. Heating awarded to Wyoming Engineering-Construction Co., Wilkes-Barre, Pa.

Twin Residence, Scranton, Pa. \$6,000. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Henry M. Weber, Academy street, Scranton, Pa. Frame, 2 1/2 stories, 34x45 feet, slate roof, steam heating, gas and electric lighting. Contract awarded to John Francis, Scranton, Pa.

School No. 3 (alt. and add.), Throop, Pa. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Board of Education, Throop, Pa. Frame, 2 stories, 64x78 feet, slate roof, hot air heating, electric lighting, metal ceilings, slate blackboards. Contract awarded to F. J. Peck & Co., 702 Third street, Scranton, Pa.

School, Dundee, Pa., \$16,000. Architect, Owen McGlynn, Long Building, Wilkes-Barre, Pa. Owner, Hanover Township School Board, care of Thomas Lavin, Ashley, Pa. Brick, 1 story, 88x62 feet, slate roof, electric lighting, slate blackboards. Contract awarded to Herman Mailander, 167 Barney street, Wilkes-Barre, Pa.

Factory (alt. and add.), Wilkes-Barre, Pa. Architect, George S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, J. B. Carr Biscuit Co., 169 North Pennsylvania avenue, Wilkes-Barre, Pa. Brick and concrete, 1 story, electric lighting, concrete floors. Contract awarded to Reese D. Isaacs & Sons, Anthracite Building, Wilkes-Barre, Pa.

Residence (add.) and Gardener's Cottage, Ardmore, Pa. \$6,000. Architect, John Charles Norton, Bryn Mawr, Pa. Owner, George M. Chichester, Ardmore, Pa. Stone, shingle and plaster, 1 story, 14x28 feet and 16x30 feet, slate roofs, hot water heating, gas and electric lighting. Contract awarded to McConaghy Bros., Oakmont, Pa.

Store and Residence, Bryn Mawr, Pa. \$6,000. Architect, John Charles Norton, Bryn Mawr, Pa. Owner, Louis Harrison, Bryn Mawr, Pa. Tapestry, brick, 2 stories, 40x42 feet, Carey's roof, hot water heating, gas and electric lighting. Contract awarded to Bernard Ganes, Bryn Mawr, Pa.

Roosevelt School (alt. and add.), Duryea, Pa. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Board of Education, Duryea, Pa. Consists of heating system, metal ceilings, slate blackboards, new plumbing. Contract awarded to J. W. Cammer, 544 Front street, Scranton, Pa. Heating awarded to Wyoming Engineering and Construction Co., 50 Main street, Wilkes-Barre, Pa.

Garage (alt. and add.), Bryn Mawr, Pa. \$3,000. Architect, Horace Wells Sellers, Stephen Girard Building, Phila. Owner, S. W. Colton, Jr., Bryn Mawr, Pa. Stone and plaster, 1 1/2 stories, 20x35 feet, slate roof (heating and lighting reserved). Contract awarded to J. Morton, Warner, Bryn Mawr, Pa.

Residence (alt. and add.), Rosemont, Pa. \$8,000. Architect, John I. Bright, 1701 Chestnut street, Phila. Owner, Theodore L. Harrison, Rosemont, Pa. Stone and frame, 2 1/2 stories, shingle roof, electric lighting, hot air

heating, hardwood floors. Contract awarded to George L. Croll, Rosemont, Pa.

Residence, Rosemont, Pa. Architects, Mellor & Meigs, 205 South Juniper street, Phila. Owner, Francis V. Lloyd, Land Title Building, Phila. Stone, 2 1/2 stories, 25x70 feet, shingle roof, hot water heating. Contract awarded to J. J. Murphy & Co., 1139 South Wilton street, Phila.

Home (alt. and add.), Kennett Square, Pa. Architects, Heacock & Hokanson, Baily Building, Phila. Owner, Friends Boarding House, Kennett Square, Pa. Brick and plaster, 2 1/2 stories, 34x65 feet, slate roof, electric lighting, tile floors (heating reserved). Contract awarded to Paul Hannum, Kennett Square, Pa.

Garage, Bryn Mawr, Pa. Architect, C. W. Churchman, 130 South Fifteenth street, Phila. Owner, Mrs. Charles R. Snowden, Bryn Mawr, Pa. Stone, 1 1/2 stories, 19x24 feet, shingle roof, electric lighting, hot water heating. Contract awarded to J. Morton Warner, Bryn Mawr, Pa.

Residence, Haverford, Pa. \$10,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Phila. Owner, name withheld. Stone, 2 1/2 stories, 19x41 feet, slate roof, hardwood floors (heating and lighting reserved). Contract awarded to A. Whitehead, Inc., 1624 Latimer street, Phila.

Chemical Laboratories, State College, Pa. \$60,000. Architects, Day & Klauder, 925 Chestnut street, Phila. Owners, Pennsylvania State College, State College, Pa. Stone, brick, steel and concrete, 3 stories, 45x100 feet, slag roof, steam heating, electric lighting, metal lath, metal casements. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building, Phila.

Residence, Haverford, Pa. \$8,000. Architects, Martin & Kirkpatrick, 10001 Chestnut street, Phila. Owner, Harry Edson, 431 Walnut street, Philadelphia. Hollow tile and plaster, 2 1/2 stories, 25x60 feet, shingle roof, electric lighting, hardwood floors. Contract awarded to Joel W. Hutton Co., Harrison Building, Phila.

Residence (alt. and add.), Haverford, Pa. Architects, Evans & Warner, Witherspoon Building, Phila. Owner, Clarence A. Warden, Jr., Haverford, Pa. Stone, 2 1/2 stories, slate roof, steam heating, electric lighting, composition floors, metal lath, water-proofing. Contract awarded to H. H. Burrell, 1204 Chancellor street, Phila.

School (alt. and add.), Norristown, Pa. Architect, Oliver R. Parry, 1723 Chestnut street, Philadelphia. Owners, Board of Education, Norristown, Pa. Stone, 3 stories, slate roof (heat and light reserved). Contract awarded to M. F. Lawlor, Norristown, Pa.

New Jersey Construction News

Residence, Trenton, N. J. \$7,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Ellwood Ivins, 19 River Drive avenue, Trenton, N. J. Brick, 2 1/2 stories, 38x32 feet, slate roof, gas and electric lighting, tile work (heating reserved). Architects ready for bids.

Cow Barn, Glen Garden, N. J. \$12,000. Architect, George S. Drew, State Capitol Building, Trenton, N. J. Owner, State of New Jersey State Sanitarium. Stone and frame, 2 stories, slate roof, electric lighting, metal lath, concrete floors, water-proofing and damp-proofing. Owners taking bids due August 6th.

Ware house (Alts.), Camden, N. J. \$4,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owner, Gately & Hurley Co., 801 Broadway, Camden, N. J. Brick elevator shaft, electric lighting, concrete floors, electric freight elevator, 6 steel shutters. Architect taking bids due August 4th. The follow-

Barrett Specification Roofs

A \$10 repair bill on 70 acres of roof— over a 16-year period

THE Bush Terminal Buildings in Brooklyn, N. Y., extend a mile along the shore.

The net roof area of these buildings is 3,100,000 square feet—or more than 70 acres. Every inch of this is roofed with Barrett materials—and, since 1897, when the first roof was covered, the cost of maintenance has been *less than \$10.00*.

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lication and cost of maintenance entitles us to speak with some measure of authority."

The idea behind The Barrett Specification is an old one, established by years of experience—namely, that coal tar pitch, tarred felt and gravel or slag, when properly laid, make the best and most economical roof.

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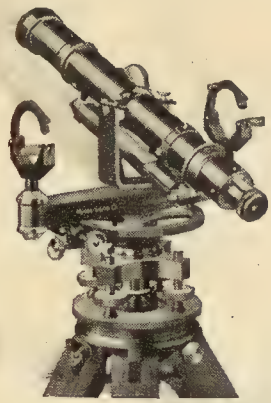
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PHILADELPHIA

ing are figuring: James W. Draper, 401 Haddon avenue; Frank Turner, 828 Broadway; Barklow & Fulton, 506 Cherry street; Chas. L. Stewart, 779 Line street; John J. Welsh, 525 Clinton street; Harry Foulkes, all of Camden, N. J.

Insane Asylum (alt.), Blackwood, N. J. \$5,000. Architect, Chas. J. Brooke, 518 Federal st., Camden. Owner, Camden County Board of Freeholders, Court House, Camden. Consists of new plumbing only. Owners taking bids due August 5th. The following are figuring: George W. Alger, Merchantville, N. J.; E. A. Rogers, Riverside, N. J.; L. C. Simpson & Co., 818 Division street, Camden, N. J.; Condon & Patton, Haddon Heights, N. J.; G. H. Talmon, 821 Market street, Camden, N. J.; Harry Abel, Magnolia, N. J.; Isley & Manning, Haddonfield, N. J.

Pavilions (2), Morris Plains, N. J., \$9,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, New Jersey State Hospital, care of Boman Warden, Morris Plains, N. J. Brick and frame and glass, 1 story, 40x60 feet, slag roof, electric lighting. Owners ready for bids.

Dining Room (add.), Glen Gardner, N. J., \$10,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey Tuberculosis Sanitarium. Brick, concrete and stucco, 2 stories, 39x50 feet, slag roof, steam heating, electric lighting. Ready for bids.

Infirmiry, Glen Gardner, N. J., \$20,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey Tuberculosis Sanitarium. Hollow tile and

stucco, 2½ stories, 125x63 feet. Ready for bids.

Church (alt. and add.), Trenton, N. J., \$10,000. Architects, William Slack & Sons, American Mechanics' Building, Trenton, N. J. Owner, Christ Episcopal Church, Rev. Trenboth, Trenton, N. J. Stone, 1 story, 20x60 feet, slate roof, electric lighting, tile floors. Architects taking bids, due August 8th. Burton & Burton, Sidney LaRue, Scott & Day and I. Harper Clayton, all of Trenton, N. J., are figuring.

Residence, Trenton, N. J., \$7,500. Architects, William Slack & Sons, American Mechanics' Building, Trenton, N. J. Owner, Elwood Ivins, 19 Riverdrive avenue, Trenton, N. J. Brick, 2½ stories, 31x38 feet, slate roof, combination lighting, tile and hardwood floors. Architects taking bids, due August 8th. Burton & Burton, S. Mather & Son, Sidney LaRue, William Ivins, I. Harper Clayton, all of Trenton, N. J., are figuring.

School, between Newton and Yardville, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Board of Education, Hamilton Township, Mercer County, N. J. Brick, 2 stories, slate roof, steam heating, electric lighting. Ready for bids.

Church, Raritan, N. J., \$25,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, R. S. Church, care of Father Ketterer, Raritan, N. J. Tapestry brick and terra cotta and stone, 50x110 feet, slate roof, steam or hot water heating, combination lighting, metal lath, dampproofing. Plans in progress.

NEW JERSEY

Contracts Awarded

Signal Tower, Belle Meade, N. J. \$8,000. Architect, William Hunter, Reading Terminal, Phila. Owner, Philadelphia & Reading Railway Co., Twelfth and Market streets, Phila. Brick, 2 stories, 15x31 feet, asbestos shingle roof, hot air heating (lighting reserved). Contract awarded to A. L. Carhart, Hale Building, Phila.

School, Roebling, N. J. \$61,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Board of Education, Florence Township. Thomas F. Watson, Secretary, Roebling, N. J. Brick and concrete, 2 stories, 78x165 feet, slag roof, steam or warm air heating, electric lighting, metal doors, safety treads, metal laths, dampproofing. Contract awarded to Berry-Goodwin Co., Drexel Building, Phila.

Residence, Trenton, N. J. \$8,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. G. Titus, 634 West State street, Trenton, N. J. Brick, stone trimmings, gas and electric lighting, hardwood floors, tile work. Contract awarded to S. W. Mather & Son, American Mechanics' Building, Trenton, N. J.

Factory, Trenton, N. J., \$15,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owners, Essex Rubber Company, Beakes and May streets, Trenton, N. J. Brick and steel, 2 stories, 50x140 feet, slag roof, steam heating, electric lighting, concrete floors. Contract for brick work awarded to Scott & Day, American Mechanics' Building, Trenton, N. J. Contract for concrete work awarded to Henry R. Fell Co., 223 East State street, Trenton, N. J.

Residence (alt. and add.), Burlington Township, N. J. Architect, H. A. Brown, Beverly, N. J. Owner, Reginald Branch, Burlington, N. J. Frame, 2½ stories, shingle roof. Contract awarded to J. E. Kolster, Beverly, N. J.

Residence, Trenton, N. J., \$8,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Brick and stone, 2½ stories, 30x43 feet, slate roof (heating reserved), gas and electric lighting, hardwood floors, tile work. Contract awarded to S. W. Mather & Son, American Mechanics' Building, Trenton, N. J.

Maryland Construction News

Parish Hall, Catonsville, Md., \$10,000. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owner, St. Mark's R. C. Church, Catonsville, Md. Frame, 1½ stories, 40x100 feet, tin roof, electric lighting. Architect taking bids, due August 10th. The following are figuring: J. J. O'Connor, 427 East Lexington street, Baltimore; R. B. Mason, 213 Harrison street, Baltimore; H. A. Nagle, Catonsville, Md.

Store Building (alts.), 223 West Baltimore street, Baltimore, Md. Architects, Mottie & White, 322 North Charles street, Baltimore, Md. Owners, Safe Deposit and Trust Company, 9 South street, Baltimore, Md. Consists of new front and interior alterations, electric lighting. Plans in progress.

Residence, Kernwood, Baltimore, Md. Architects, Mottie & White, 322 North Charles street, Baltimore, Md. Owner, Lawrence M. Buck, Fort avenue and Lawrence street, Baltimore. Stone and frame, 2½ stories, electric lighting. Plans in progress.

Hotel, Washington, D. C., \$1,500,000. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Owners, New Arlington Hotel Company, Washington, D. C. Brick, stone, terra cotta and steel, fireproof, 12 stories. Preliminary plans in progress. Details undecided.

Store (alt. and add.), 1018 East Baltimore street, Baltimore, Md. Architect, John Freund, Jr., 11 East Lexington street, Baltimore, Md. Owner, R. Ember Company, on premises. Brick, 3 stories, slag roof, electric lighting. Owner is taking sub-bids.

Church, Walbrook, Baltimore, Md., \$30,000. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, Starr M. E. Church, Walbrook, Baltimore, Md. Stone, 1 story, slate roof, steam heating, electric lighting. Architects are ready for bids.

Packing House, Exeter and Lombard streets, Baltimore, Md. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owners, Consolidated Beef and Provision Company, Baltimore, Md. Brick, 3 stories, 40x48 feet, 20x54 feet, slag roof, electric lighting. Plans in progress.

Bakery (alts.), 106 to 110 West Barre street, Baltimore, Md. Architect, John Freund, Jr., 11 East Lexington street, Baltimore. Owners, City Baking Company, Equitable Building, Baltimore, Md. Consists of new bake ovens and conveying machinery. Architect taking revised bids, due August 11th. The following are figuring: Chesapeake Construction Company, Munsey Building, Baltimore, Md.; Consolidated Engineering Company, Calvert Building; Charles L. Stockhausen, Marine Bank Building; R. B. Mason, 213 Harrison street; Edward Watters & Co., 509 North Charles street; B. F. Bennett Building Company, 123 South Howard street; Morrow Brothers, Fidelity Building, all of Baltimore, Md.

Chapel, Catonsville, Md., \$60,000. Architects, Murphy & Olmstead, 1413 H street, N. W., Washington, D. C. Owner, St. Charles' College, Catonsville, Md. Marble and steel, 2 stories, slate roof, steam heating, electric lighting. Plans about completed. Owners and architects will soon take bids.

School, Roland Park, Md. Architects, Wyatt & Nolting, Keyser Building, Baltimore. Owners, Roland Park School Board, Roland Park, Md. Brick and stone, fireproof, 3 stories, slate roof, steam heating, electric lighting, slate blackboards. Plans in progress.

School, Ocean City, Md., \$26,000. Architect, Theo. W. Pietsch, American Building, Baltimore. Owners, Board of Education, Ocean City, Md. Brick, 2 stories, slag and slate roof, electric lighting, slate blackboards, steam heating. Owners taking revised bids, due August 10th. The following are figuring: H. B. Pilchard, Pocomoke City, Md.; T. H. Mitchell, Salisbury, Md.; D. S. Adkins, Salisbury, Md.; W. D. Cordy, Snow Hill, Md.; L. M. Holland, Berlin, Md.; E. Springer & Co., 424 South Charles street, Baltimore, Md.; Singer-Pentz Co., Equitable Building, Baltimore, Md.

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MARYLAND

Contracts Awarded

Barn and Silos, Towson, Md., \$25,000. Architect, James G. Langdon, Munsey Building, Baltimore, Md. Owner, Endwood Sanitarium, Towson, Md. Hollow tile and plaster, 1½ stories, 120x38 feet, asbestos shingle roof, electric lighting (lockers reserved). Contract awarded to Arthur F. West, Builders' Exchange, Baltimore, Md.

Church, Baltimore and Pulaski avenues, Baltimore, Md. Architects, Haskell & Barnes, 301 North Charles street, Baltimore, Md. Owner, Trinity Evangelical Lutheran Church, Baltimore, Md. Granite, 1 story, 98x75 feet, slate roof, steam heating, electric lighting. Contract awarded to T. L. Jones & Son, 410 West Saratoga street, Baltimore, Md.

Warehouse, 501 to 511 President street, Baltimore, Md. Architects, Haskell & Barnes,

301 North Charles street, Baltimore, Md. Owners, Stewart-Knatz Co., Fawn and President streets, Baltimore. Brick, 4 stories, slag roof. Contract awarded to Thomas B. Stanfield Company, 106 Clay street, Baltimore, Md.

Theatre, 114 West Lexington street, Baltimore, Md., \$300,000. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Garden Theatre Company, C. E. Whitehurst, President, 210 East Lexington street, Baltimore, Md. Brick, terra cotta and steel, fireproof, 3 stories, 80x156 feet, tile and slag roof, steam heating, electric lighting, metal lath, kalamein doors, waterproofing, elevator. Contract awarded to George A. Fuller Company, Munsey Building, Washington, D. C.

120 feet, slag roof, steam heat, electric lighting, water and dampproofing. Plans in progress.

Picture Theatre, Wilmington, Del., \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 1000 French street, Wilmington, Del. Brick, cut stone, 2 stories, 37x125 feet, composition roof, steam heat, electric lighting, concrete floors. Ready for bids in a few days.

Fire House (alt. and add.), Wilmington, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owners, Phoenix Fire Company, on premises. Brick, 2 stories, slate roof, indirect steam heating, electric lighting, metal ceilings. Architect taking bids, due August 8th. The following are figuring: W. D. Haddock Company, 804 Orange street; A. S. Reed & Bros. Co., 815 Shipley street; J. E. Healy & Sons, 707 Tatnall street; W. H. Jones & Co., 823 Shipley street; J. Frank Owens, 1103 West Fourth street; Geo. Charles & Sons, 701 Tatnall street, all of Wilmington, Del.

Miscellaneous

Contracts Awarded

Miscellaneous Construction News

Memorial Building, Washington, D. C. \$500,000. Architects, Trowbridge & Livingston, 527 Fifth avenue, New York City. Owner, Memorial to Women of the Civil War, C. L. Magee, Secretary, War Department, Washington, D. C. Limestone, granite and steel, fire proof, 3 stories, 75x135 feet, copper and tile roof, hot water heating, electric lighting, metal sash and frames, elevators, waterproofing and damp-proofing. Owners taking bids due August 20th. The following are figuring: J. E. & A. L. Pennock, Land Title Building, Phila.; James G. Doak & Sons Co., Crozer Building, and George A. Fuller Co., Munsey Building; Boyle-Robertson Construction Co., 1516 H street, N. W.; Davis Construction Co., Union Trust Building, Washington, D. C.

Residence, Ashland, O. Architect, Vernon Redding, Mansfield, O. Owner, P. A. Myers, Ashland, O. Brick, 3 stories, 76x101 feet, composition and slate roof, hardwood floors, metal lath, water-proofing and damp-proofing (heating and lighting reserved). Architect has received bids.

Factory Buildings, Syracuse, N. Y. Engineers, Day & Zimmerman, 611 Chestnut street, Phila. Owners, New process Gear Corporation, Syracuse, N. Y. Reinforced concrete, 3 stories, 83x43 feet, and brick and steel, 1 story, 48x127 feet, slag roof, steam heating, electric lighting. Plans about completed. Engineers will soon take bids.

Apartment House, Detroit, Mich. Architect, Albert Kahn, Detroit, Mich. Owner, Walker Apartments, Detroit, Mich. Brick, steel and concrete, 9 stories, 100x186 feet, slag roof, steam heating, electric lighting, metal lath, water-proofing, metal frames and sash, elevators. Architect taking bids due August 6th.

Irwin & Leighton, 126 North Twelfth street, are figuring.

Court House and City Hall, Wilmington, Del. \$1,000,000. Architects (associated), John D. Thompson, Jr., Ford Building, Wilmington, Del., & Palmer, Hornbostel & Jones, 63 William street, New York City. Owners, Wilmington and New Castle County Building Commission, care of Thomas F. Gormley, Secretary, Church Building, Wilmington, Del. Stone, steel and concrete, fireproof, 3 and 5 stories. Owners are taking bids on all concrete work due August 11th.

Heating Plant, Wilmington, Del. Engineer, M. W. Thomas, care of owners. Owners, Board of Education, George Rommel, Chairman, 10½ East Sixth street, Wilmington, Del. Sealed proposals will be received for installing a steam heating plant in school, No. 25, at Third and Bayard streets, until 8 P. M. August 10th.

Publishing House (alt. and add.), Shipley, above Third street, Wilmington, Del., \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Star Publishing Company, 317 Shipley street, Wilmington, Del. Brick and terra cotta, 3 stories, 32x90 feet, slag roof, electric lighting, metal lath. Plans in progress.

Church, Wilmington, Del., \$80,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington. Owner, Hanover Presbyterian Church, Wilmington, Del. Stone, 1 story, 90x150 feet, slate roof (heating reserved), electric lighting, hardwood and tile floors, metal lath. Ready for bids.

Hall Building, Chester, Pa., \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Brick, 3 stories, 50x

Shirt Factory (add.), Buffalo, N. Y. \$65,000. Engineers, Day & Zimmerman, 611 Chestnut street, Phila. Owners, Buffalo Shirt Co., Buffalo, N. Y. Reinforced concrete, 3 stories, slag roof, steam heating, elevators, laundry machinery. Contract awarded to Hydro Construction Co., Buffalo, N. Y.

Residence, Townsend, Del. Architects, E. L. Rice, Jr., & Co., 815 Market street, Wilmington, Del. Owner, Dr. J. B. Niles, Townsend, Del. Stone and frame, 2½ stories (heating reserved). Contract awarded to D. B. Maloney, Townsend, Del.

Bakery, Ninth and Union streets, Wilmington, Del., \$51,000. Architects, Philip Isaac Company, 1117 West street, Wilmington, Del. Owners, Huber Baking Company, 621 West Second street, Wilmington, Del. Brick, 3 stories, 100x160 feet, slag roof, steam heat, electric lighting, concrete floors. Contract awarded to Ellwood Sharp, 1244 Elm street, Wilmington, Del.

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Editorial Comment

The total estimated cost of all building work for which permits were issued in Philadelphia during the month of July, according to figures compiled by Statistician William Gamble, of the Bureau of Building Inspection, is \$4,661,850, an increase of \$1,193,150 as compared with the figures of July, 1913, and the largest for building operations during the month of July for the last 11 years.

One hundred and eight permits were issued for the erection of two-story dwellings, and 631 operations were begun during the month, at an expenditure of \$1,513,425, while for dwellings of the three-story type only 31 permits were granted, and 74 operations were started, aggregating \$339,500.

Nine permits were issued for factory buildings, whose total estimated cost was \$466,000. One permit was granted for a large power house, to cost \$1,000,000.

The following schedule gives the number of permits issued, the character of the operation and the estimated cost:

	Per- mits.	Oper- ations.	Estimated Cost.
Dwellings, two-story...	108	631	\$1,513,425
Dwellings, three-story..	31	74	339,500
Dwellings, frame	3	3	7,000
Tenement houses	2	2	75,000
Apartment house	1	1	7,600
Stables	14	14	11,720
Manufactories	9	9	466,000
Workshops	7	7	21,025
Garages	32	36	31,230
Office buildings	2	2	3,300
Stores	5	5	83,200
Warehouses	3	3	30,100
Church	1	1	20,000
School	1	1	5,200
Hospital	1	1	19,000
Places of amusement...	2	2	28,000
Miscellaneous buildings	6	6	4,950
Additions	148	156	612,740
Alterations and repairs.	338	353	274,200
Miscellaneous work	199	207	66,065
Heaters	21	22	14,425
Fire escapes	11	11	6,030
Signs	7	7	1,565
Convent	1	1	20,575
Power house	1	1	1,000,000
Totals	954	1,556	\$4,661,850

* * *

Looks as though the "Guide's" prediction, made last January, to the effect that the year as a whole would register about the usual totals, despite the unfavorable returns shown in the opening month, would be fully verified. You may recall that we repeated this prediction in June, before the swelling tide of operation work made it plain that the figures for the year would be quite phenomenal. Philadelphia's eminence as a building center rests on too solid a foundation to be shaken by such trivial incidents as psycho-

logical depressions, professors of gloom to the contrary notwithstanding.

* * *

As this number of the "Guide" goes to press, the air is heavy with war and rumors of war abroad. On the one side the Triple Alliance, Germany, Austria and Italy; on the other the Triple Entente, England, Russia and France. The war, should the dispute go to such an issue, will be one of unparalleled magnitude and bitterness. Its possible effect on American trade conditions is a subject to be gravely considered. Its immediate effect has been to send the money markets of the world into a condition bordering on panic. What influence its continuance over any considerable period is likely to have upon "the price of living," upon the national revenue,—deprived at a blow of all income from custom receipts,—upon the marketing of our cotton, cereals, food stuffs and manufactures only the future can reveal. The match lighted in the Balkans—long since labelled "the powder magazine of Europe"—bids fair to embroil all Europe. One result should be to strengthen immeasurably the market for American goods in South America. The ultimate outcome with its possible influence for good or evil is at this writing largely problematical. As a neutral power on terms of perfect amity with all of the parties to this titanic conflict, we shall occupy a position somewhat unique. That peace has its tribulations as well as war is shown by the gravity of the problems presented to us as indirect consequences of the disturbance.

* * *

Alas! Even the skyscraper is not new! Here's Professor Arnaldo Cervesato, fresh from excavations in old Rome, assuring us that in Ostia, ancient Rome, he unearthed miniature skyscrapers, buildings from seventy to ninety feet high and with a striking resemblance both architecturally and commercially, to the river front and downtown section of New York.

But let Professor Cervesato talk for himself:

"Of course I do not mean to say Ostia boasted a structure comparable in any way to the Woolworth or Singer Building," Cervesato continued, "but my excavations prove the amazing fact that Ostia was composed almost entirely of buildings between seventy and ninety feet.

"Side by side with the skyscraper was the tenement house, or something closely resembling the structure so called in congested American cities. These buildings were not as lofty as the business buildings and were inhabited chiefly by the poor and the workmen, very numerous in Ostia. The tenement was divided into small apartments, and one of these days we shall also be able to describe the exact disposition of the rooms.

"But these are not the only characteristics which lead me to compare ancient Ostia with some of the modern maritime cities. Pompeii and Herculaneum, the two buried cities, were the pleasure and watering places of Rome, and from the life the patricians, the senators and the knights of the Urbs led there, they may be compared to Newport. Ostia remained, even at the height of its prosperity, strictly a commercial city, whose streets were thronged with a most cosmopolitan crowd closely resembling that of New York's East Side. Italians and Orientals, Hebrews and Hibernians, Gauls and Africans—all went to Rome while the laborers stopped at Ostia, where they could make a living easily. Each race had there its meeting places and churches, and they were easily recognizable by their costumes and the language they spoke.

"The docks of Rome were located at Ostia and they were redundant with merchandise of all kinds—Sicilian wheat, fishes brought even from so distant a place as the Black Sea, Spanish oils and wines. Oriental perfumes and tapestries, marbles from Africa and Asia, and in such a quantity as to prompt one of the historians of the imperial era to say that by judging from what was brought to Ostia one would believe there was nothing left in the country whence the goods came."

* * *

"We must trust only to our imagination for a picture of what the port of Ostia looked like when Rome was at the height of her power, the capital of an empire embracing every country of the then known world. A fleet of hundreds of vessels arrived and left every day laden with passengers and freight. The mosaic floors of some of the buildings just unearthed prove that navigation companies existed then as to-day, and that they all had their offices and agents at Ostia. In fact, the offices have been located of navigation companies whose boats sailed on the Adriatic or plied to Alexandria, Sardinia, Carthage and Lisbon. These companies, like those of to-day, had different offices for passengers and freight.

"Sometimes the agents of importing companies combined to raise the price of necessities of life, and then there was trouble. Yes, Rome had something like your Sherman act, but the power vested in the American Interstate Commerce Commission was then exercised by the Prefect of Rome, who, after a riot due to the high cost of living, would order the price of food reduced."

* * *

Mr. Frank Koester has an illuminating and informing article in the New York "Sun" on the workings of the zone system now in vogue in the principal cities abroad and under discussion as to its applicability in New York City.

"While each city has its own problems to solve the classifications must be in accordance with the results to be achieved," writes Mr. Koester, "and with the nature of its activities and business; for example, New York with its various industries and activities

needs a greater number of classifications and greater flexibility in their application than Washington, which is more devoted to administrative and social purposes. Suitable laws must be enacted under which the necessary regulation can be carried out and under which citizens will be protected in their rights and prevented from interfering with the rights of others."

* * *

"Objectors to such regulations will be numerous, but it is only necessary to recall that in sporadic cases such systems of regulations exist and are carried out with even greater severity than may often be necessary. On certain streets, for instance, no commercial traffic is allowed, while in others no peddlers can sell goods. On the other hand, a millinery or similar establishment is at liberty at any time to move in and spoil a whole residential block, to be followed shortly by laundresses and bootmakers.

"In the laying out of districts the objects to be accomplished are the providing of healthful living and working conditions, preventing of congestions and the grouping together of those whose income, tastes and nature of business are generally similar.

"To secure the best results a competent civic engineer should be placed in charge of the work, and the city should by no means restrict itself to engineers residing in the city itself; it should endeavor to obtain the best and most competent available, either residents or not, as no greater mistakes can be made than to place the work in incompetent hands."

* * *

"New York at present is contemplating the establishment of a zone system, but if the same procedure is adopted as was the case in connection with the commission on the heights of buildings, which recently published its report, no great beneficial results can be expected. That report is compiled evidently by men not sufficiently familiar with matters of modern city planning, as is evident by the numerous mistakes exhibited throughout the report.

"For instance, the following is a quotation from a paragraph on page 100: 'In Essen, as in most of Prussia, no man may build upon an unfinished street without express permission of the authorities; and in practice no street is ever legally finished until the last home on it is built.'

"One of the members of this commission was sent to Germany to study city planning, and at the expense of New York City, for the sole purpose that the commission might benefit from the experience and practice of Germany, where city planning and maintenance has been developed as a science for generations. However, reading a sentence like the one cited, one is entitled to draw one's own conclusion that the results of this commission will rather be detrimental to the welfare of New York than beneficial.

"Having been affiliated for many years with German municipalities prior to my twelve years' activity in New York, I had

recently the opportunity to discuss this among other city planning matters with those who are interested in the report, and it developed that they were of the opinion that with modern city planning rules the building of houses in German cities would be allowed only when the proposed new building was to be erected adjoining the last erected structure, and that no intervening clear space or unoccupied lot was to be allowed. The folly of such argument can be readily understood without further explanation. And those men are to decide upon the regulation, development and the consequent welfare of New York City."

* * *

"Further the commission of the heights of buildings has practically but one point in view, that is, regulating the maximum heights of buildings, neglecting or overlooking entirely the regulation of the minimum heights of buildings, which is, from a city planner's point of view, as important as the regulation of the maximum heights of buildings.

"Other mistakes have been made in connection with civic improvement when it became the law to remove all obstructions from the sidewalks in lower Manhattan. The advocates of this undertaking, no doubt overlooking that the open gratings, whether installed by the city or by the private building owners, should neither be allowed on the sidewalks or should have been removed, for the same reason that other obstructions are being removed, such as show-cases, staircases, etc. In fact, the open gratings are more objectionable than the obstructions like show-cases and the like, as the latter can be readily noticed and be avoided, but an open grating emitting foul air and dust from the basement of buildings or subways cannot be noticed until it is actually underfoot. Probably a little more acquaintance with modern city planning and civic improvements on the part of those responsible, will start, under better advised administration, a new campaign at the expense of the public to remove gratings, which readily and without much

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expense should have been taken up with the original clearing off of the sidewalks."

* * *

"These are but a few items showing the blunders made in recent civic improvement undertakings and it is evident that in case the commission for establishment of zone systems is not better qualified in city planning it will result in decided disadvantages for business and the public in general, in spite of every effort this commission may make to prove to the general public that the policy adopted was the best for the conditions on hand. City planning is not a matter of opinion; it is one of thorough experience and training. It is a science and should be studied in the same degree as any other profession. It is not a job for politicians, but one for experts on the subject."

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

W. Simpson (O) Forty-sixth street and Baltimore avenue. R. B. Scarborough (C), 5612 Windsor avenue. Cost, \$3,100. Two dwellings, brick, 2 stories, 15x36 feet, 5520 Yocum street.

S. H. Bailey Mincer (O), 37 South Sixteenth street. Cost, \$9,600. Eight dwellings, brick, 2 stories, 15x23 feet, Sharpnack and Chew streets, Germantown.

Carver & Moore (O), 1305 Diamond street. James C. Driscoll (C), Hale Building. Cost, \$5,500. Stable, brick, 2 stories, 26x120 feet, 1600 Fountain street.

H. R. Stetler (O), Lyceum and Dexter sts. W. Rowland (C), Cost, \$2,500. Dwellings, brick, 2 stories, 16x46 feet, 485 Conarroe st.

Wrigley Manufacturing Co. (O), Wayne Junction, Phila. E. Frapkenfeld (C), Jenkintown, Pa. Cost, \$5,000. Manufacturing building, brick, 1 story, 62x51 feet, Wayne Junction, Phila.

Robert Wilde (O), 6850 Ridge avenue. C. M. Swartley (C), 6835 Ridge avenue. Cost, \$2,500. One dwelling, brick, 2 stories, 27x31 feet, Livezey street and Ridge avenue.

George Katz (O), 322 Dickinson street. L. M. Shestack (C), 322 Dickinson street. Cost, \$10,000. Theatre, brick, 1 story, 122x300 feet, 1030 North Fourth street, Phila.

S. C. Smoke (O), Third street and Olney avenue. C. L. Hemmerly (C), Oak lane, Phila. Cost, \$2,500. One dwelling, brick, 3 stories, 14x16 feet. Cost, \$2,000. One dwelling, Third street and Olney avenue.

A. Sluvniski (O), 3356 Almond street. A. Tarazminz (C), 3168 Livingston street. Cost, \$1,800. One dwelling, brick, 2 stories, 16x38 feet, 3358 Almond street. Cost, \$1,800. One dwelling.

Louis Scholtz (O), 2410 Duncan street. A. Ahlers (C), 3425 Howell street. Cost, \$3,300. Three dwellings, brick, 2 stories, 14x40 feet, Edmond and Wakeling streets.

W. E. Whitaker (O), Pike and Orthodox streets. J. G. Tothingham (C), 3367 Frankford avenue. Cost, \$3,500. One dwelling, brick, 2 stories, 16x56 feet, Pike and Orthodox streets.

Klaus & Baxter (O), 5715 Ashland avenue. Cost, \$10,800. Six dwellings, brick, 2 stories, 15x25 feet, 1831 to 45 South Fifty-sixth st. Cost, \$31,200. Twenty-four dwellings. Cost, \$31,200. Twenty-four dwellings. Cost, \$4,600. Two stores and dwellings. Cost, \$4,600. Two stores and dwellings.

C. Devine (O), 1448 Point Breeze avenue. Cost, \$3,500. Dwelling, brick, 3 stories, 22x32 feet, 1448 Point Breeze avenue.

Estate of Stephen Girard (O), Lafayette

Building. Cost, \$2,400. Four dwellings, brick, 3 stories, 16x54 feet. Cost, \$70,000. Fourteen dwellings. Cost, \$50,000. Ten dwellings. Cost, \$24,000. Four dwellings. Cost, \$70,000. Fourteen dwellings, Twenty-first and Porter streets.

F. M. Faulkner (O), 2331 East Allegheny avenue. Cost \$37,800. Twenty-one dwellings, brick, 2 stories, 14x28 feet, Aramingo and Ann streets.

H. A. Parson (O), 6004 Market street. Cost, \$4,000. Shop, brick, 2 stories, 30x80 feet, Sixtieth and Irving streets.

Philadelphia Electric Co. (O), Tenth and Chestnut streets. Fidelity Construction Co. (C), Heed Building. Cost, \$1,000,000. Power house, brick, 3 stories, 145x173 feet, Twenty-sixth and Christian streets.

R. H. Robinson (O), 1316 Fracker street. J. M. Cassel & Sons (C), 2531 Carlisle street. Cost, \$11,000. Dwelling, brick, 3 stories, 38x41 feet, Oak Lane, Phila.

W. Smith (O), 5263 Ridge avenue. Cost, \$3,300. Two dwellings, brick, 2 stories, 16x44 feet, Dawson and Righter streets.

Robert Killough (O), Wayne and Duval sts. Cost, \$4,000. Dwelling, brick, 3 stories, 27x35 feet, Anderson and Meade streets.

William Gerke (O), 7101 Torresdale avenue. Cost, \$3,600. Two dwellings, brick, 2 stories, 16x45 feet, Hegerman and Princeton streets.

M. Mattanson (O), 2315 South Eighth st. M. Brodsky (C), 7936 Lyons avenue. Cost, \$1,800. Dwelling, brick, 2 stories, 16x43 feet, Eighty-sixth street and Eastwick avenue.

E. H. Yancy (O), Duval and Musgrave sts. William B. Ford (C), Duval and Musgrave streets. Cost, \$5,400. Dwelling, stone, 3 stories, 23x51 feet, Duval and Musgrave sts.

Mission for St. Vincent De Paul (O), East Cheltenham avenue. W. J. Cowell (C), 943 East Cheltenham avenue. Cost, \$5,200. School, stone, 34x21 feet, 338 East Haines street, Gtn.

Mask and Wig Club (O), 310 Quince street. Charles Gilpin (C), Harrison Building. Cost, \$2,500. Club house, 310 Quince street.

J. Hagerty (O), 4331 North Fleming street. W. F. Brenecks (C), 827 North Forty-fifth street. Cost, \$2,240. Dwelling, brick, 2 stories, 16x40 feet, Connoroe street and Ridge avenue.

A. Werner (O), 4845 Stiles street. Charles F. Doerr (C), 4857 Tacony street. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x59 feet, 4854-56 Stiles street.

C. Kaiser (O), 2005 Norris street. H. Hazlett & Son (C), 1701 North Twentieth street. Cost, \$7,000. Two dwellings, brick, 2 stories, 16x30 feet, 2002 North Second street.

Alterations and Additions

Adams Express Co. (O), Eighteenth and Market streets. Armstrong & Latta (C), Land Title Building. Cost, \$8,000. Garage, Twenty-second and Ludlow streets.

C. M. Clark (O), Queen lane. Stokes Bros. (C), 6723 Musgrave street. Cost, \$3,200. Garage, Queen lane, Gtn.

Philadelphia and Reading Railway Co. (O), Twelfth and Market streets. Cost, \$11,000.

Trestle, Fourth street and Allegheny avenue.

Dr. C. J. Jones (O), 1509 Locust street. William R. Dougherty (C), 1610 Sansom st. Cost, \$1,400. Residence, 1509 Locust street.

Sweeney Bros. (O), Haines street and York road. J. H. Dagney (C), York road and Haines street. Cost, \$2,800. Office, Haines st. and York road.

Polish American Association (O), 2806 Al-

legheny avenue. A. Sunmswiski (C), 1634 Ruffner street. Cost, \$4,900. Club house, 2806 Allegheny avenue.

John M. Kennedy, Jr. (O), 1001 Chestnut st. F. M. Kenndy (C), 431 West Walnut lane. Cost, \$1,000. Manufacturing Building, Ontario and C streets

Weightman Estate (O), 1524 Chestnut st. J. F. Talley (C), 1931 Market street. Cost, \$2,000. 3901 Walnut street.

W. W. Lowery (O), 210 South Fifty-second street. Cost, \$1,200. Store and dwelling, 138 South Sixtieth street.

Rev. T. Park (O), 714 North Broad street. M. L. Conneen & Co. (C), 2015 Cuthbert st. Cost, \$16,000. Residence, 71 4North Broad st.

Friends School (O), Main and Coulter sts. Stewart A. Jellett (C), Franklin Bank Building. Cost, \$1,200. School, Main and Coulter streets.

H. Bower Chemical Co. (O), Twenty-ninth street and Gray's Ferry road. Cost, \$1,200. Twenty-ninth street and Grays Ferry road.

A. D. Read (O), 4105 Pine street. Cost, \$3,500. Dwelling, 4105 Pine street.

J. L. Waldin (O), 6343 Race street. Cost, \$2,000. Garage, 6341 Race street.

Knnedler & Co. (O), Bridesburg, Phila. George Gray (C), 4665 Pearl street. Cost, \$4,000. Manufacturing building, Bridesburg, Phila.

M. F. Block (O), 1426 North Eleventh st. G. J. Reich (C), 1112 Loudon street. Cost, \$2,400. Theatre, 2212 North Front street.

Pennsylvania Hospital (O), Eighth and Spruce streets. R. C. Ballinger (C), 218 N. Thirteenth street. Cost, \$10,000. Hospital, Eighth and Spruce streets

A. Wilkey (O), 109 Harvey street. J. Thurman & Co. (C), 92 Collom street. Cost, \$3,300. Garage, 107 Harvey street, Gtn.

George MacKenzie (O), Maple avenue. T. G. Park (C), 1309 Walnut street. Cost, \$2,300. Residence, Maple avenue.

Acme Tea Co. (O), Fifth and Noble sts. E. H. Sturts (C), 2614 Ridge avenue. Cost, \$1,300. Store, Twenty-sixth street and Indiana avenue.

**At the recent annual meeting of the New York Society of Architects the following officers were chosen: President, Constantine Schubert; vice-president, J. Reily Gordon; secretary, William T. Towner, and treasurer, Louis Berger.

**At the annual meeting of the Norfolk Builders' Exchange, held at the Lynnhaven Hotel, reports for the year were presented and new officers and directors elected. The officers chosen for the ensuing year were as follows: President, M. Augustus Williams; first vice-president, J. A. Turpin; second vice-president, Ira Cahoon; third vice-president, W. T. Cake; treasurer, A. B. Consolvo. There were also twelve directors elected to serve for stated terms.

**As a result of the disastrous fire which wiped out a large portion of the city of Salem, Mass., the Chamber of Commerce of that city will hold an exhibition of fireproof structural materials and methods in the State Armory, July 23rd to August 8th inclusive. The exhibition is intended to familiarize the people with fireproof construction and encourage its use in rebuilding the city. The Chamber states that there are more than 60 factories to be rebuilt and homes for more than 2,500 families.

**At the seventeenth annual convention of the National Hardwood Lumber Association, held in Bucalo, N. Y., many instructive reports were presented, one of special interest being that of the Inspection Rules Committee. The importance of the manufacturing lumber industry may be gained from the fact that about 785,000 men are employed in it and the manufactured products are valued at \$1,160,000,000. The point was made that the National Hardwood Lumber Association, with its 900 members, is "the greatest organization of its kind in the world, having for its main purpose the standardizing of inspection rules for hardwood lumber and the grading of lumber according to these rules." The officers elected for the ensuing year was as follows: President, E. V. Babcock, of Pittsburgh; first vice-president, J. V. Stimson, of Huntingburg, Ind.; second vice-president, Hugh McLean, of Buffalo, N. Y.; third vice-president, F. L. Brown, of Chicago, Ill., and secretary, Frank F. Fish, of Chicago, Ill.

**An organization which is planned to be made national in its scope has been effected in Cleveland, O., to conduct an educational campaign in behalf of fire prevention by the more general use of fireproof building materials. Back of the movement are the manufacturers of fireproof building materials who hope in this way to increase the demand for their products. The organization is known as the Society Advocating Fire Elimination, the initials of the words spelling safe. This is said to be the first concerted effort of the manufacturers of fireproof building materials to popularize their products. While they will all be working together for their own good they claim that they will be doing the country a service by educating the general public to erect safer buildings. The society has organiled a campaign in Cleveland and expects to extend its efforts to other cities as

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**Eighth Annual Chicago Cement Show will be held at the Coliseum, February 10-17, 1915. The show is under the management of the Cement Products Exhibition Co., 208 South La Salle street, Chicago. Plans are well under way for the 1915 show, and the first allotment of space will be made by drawing on Saturday, August 8th, 1914, at the office of the Cement Products Exhibition Co. Only those whose applications are filed on or before Saturday, August 1st, 1914, will be permitted to anticipate in this drawing. Exhibits comprising cement products, cement and concrete machinery, erinforcing materials, coloring mixtures, fire-proofing systems, and other articles pertaining to the use of Portl land cement will be brought together during this exhibition.

**International Cement Co., Inc., Jamestown, has opened a New York office in the Park Row Building, 21 Park Row, room 1733. The new office will be in charge of M. Gray Carrel.

**Society for Electrical Development, Inc., announces eight prizes for the best stories, articles or repirts on any subject pertaining to commercial electricity. The competition is open to employees of members of the Society. There will be one prize of \$250, and of \$150, one of \$50, and five of \$10 each. The competition closes on September 1st, 1914. Full particulars may be obtained by writing to the Competition Editor, Society for Electrical Development, Inc., 29 West Thirty-ninth street, New York City.

**Albert C. Kay, architect, formerly connected with A. P. Kahr, Bucalo, N. Y., has opened an office for the practice of his profession at 119 Barton street, Buffalo, and de-

sires catalogues and samples from manufacturers interested in the building trades.

**The Executive Board of the International Association of Master House Painters and Decorators of the United States and Canad will hold its midsummer meeting at the Hotel Brunswick, Asbury Park, N. J., Thursday. The principal business of the meeting is to arrange the details and program for the 1915 convention of the association.

**The Spencer Heater Company, of Scranton, Pa., will move its New York branch on August 1st to larger quarters in the Architects Building, 101 Park avenue, cornor of Fortieth street. E. R. Troxell, Jr., is the New York manager.

**The electrical fraternity of New York was well represented at the National Electrical Constructors' Conventions, which closed last Friday night at Detroit, with the election of the following officers: President, John R. Galloway, Washington, D. C.; vice-president, J. C. Hatsel, New York City; second vice-president, W. L. Hutchinson, Kansas City, Mo.; third vice-president, John C. Rendler, Los Angeles.

**City Manager C. E. Ashburner, or Springfield, O., is sending out invitations to city managers throughout the country to meet in convention at Springfield, August 4, 5 and 6, next.

**Second International Exposition of Safety and Sanitation will be held at the Grand Cathedral Palace, New York City, December 12 to 19, 1914. This exposition will be under the auspices of the American Museum of Safety, and according to present plans will surpass the very successful exhibition held at the same place last year.

soon as manufacturers and dealers in those cities become interested in the movement. The campaign to educate the people will be conducted through the daily newspapers. Interesting articles such as the papers can be induced to publish will be prepared, so that there will be no excuse for advertising space connected with this publicity. At a dinner given by the society at the Colonial Hotel, in Cleveland, in June, speeches were made by some of the city officials and others, including H. B. McMaster, Youngstown, O., director of the Association of Sheet and Tin Plate Manufacturers. Makers of sheets, sheet metal building material and steel material for reinforcing and fireproofing buildings are expected to take an active interest in the organization. Its officers are Henry H. Camp, president of the Camp Conduit Company, president; William A. Fay, vice-president, and W. T. Rossiter, treasurer. Ralph P. Stoddard is executive secretary. The society has opened an office at 340 "Leader-News" Building, Cleveland.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

NOTICE TO CONTRACTORS.

New County Building for New Castle County and

New Municipal Building for the City of Wilmington.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions, in the Church Building, at the corner of Market and Tenth streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time) on the 11th day of August, 1914, for the concrete work entering into the construction and completion of the new County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King street and French street, and between Tenth street and Eleventh street, in the City of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal will be required for each of the two buildings.

Each proposal shall be accompanied by a certified check or cash deposit in the amount of Two Thousand Dollars (\$2,000.00).

The Commissions reserve the right to reject any or all proposals received if they consider it to be the best interests of the county or city so to do.

The surety required to guarantee the faithful performance of the work will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty (50) per cent. of the amount of the contract.

The contract provides that the work shall be completed within two hundred and ninety-four (294) calendar days from the date of notice to start work.

On and after August 4th, the drawings and specifications, the forms of contract, the bond

and blank forms for proposals may be obtained at the office of the Commissions in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the Commissions, and upon the payment of a deposit of fifty (\$50.00) dollars; this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before August 15, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

THOMAS F. GORMLEY,

Secretary of the New Castle County Building Commission and the Wilmington Building Commission.

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 3, 1914.—Sealed proposals will be opened in this office at 3 P. M., September 14, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of the United States post office at Port Jervis, N. Y. One story, mezzanine and basement building; ground area, 4,800 square feet; first floor fireproof; stone and brick facing with ornamental terra cotta cornice, etc.; tin composition roof. Drawings and specifications may be obtained from the custodian of site at Port Jervis, N. Y., or at this office in the discretion of the supervising architect. O Wenderoth, Supervising Architect.

METAL LATH AS A FIRE RETARDANT.

A striking example of the fire retarding qualities of metal lath construction is found in connection with the destruction of a department store in Roxbury, Mass. The elevator shaft was located nearly in the center of the building and was subjected to the intense heat of the burning structure for many hours, as well as to the severe strain and shock of falling floors and masonry. In the construction of the elevator enclosure 4-inch angle irons properly braced and bolted were used at the corners, and to them were attached 1-inch furring channel irons placed 12 inches on centers. To this furring 24-gauge metal lath was laced and the whole plastered on both sides—excepting the top story which was finished on the inside only—making a solid partition or wall approximately 2 inches thick.

Pictures taken of the ruins some time after the fire and after a period of severe winter weather with snow, cold and high winds, during which time the structural strength of the shaft and the material used in its construction were still further tested, show the elevator enclosure standing like a monument amid the surrounding wreckage.

It is stated that only in a few instances was the plaster broken away by the fire in such a manner as to expose the steel, and in no case was the bond of the plaster to the metal lath broken or the furring loosened from the supports. Where the plaster was broken away was on exposed corners or where the floor timbers were framed into supports and was due rather to blows from falling timber and masonry than to intense heat. —"Building Age."

"THE HOUSE IN GOOD TASTE."

"Surely the first consideration of the house in good taste," says Elsie De Wolf, in her book of that title, "must be light, air and sanitation. Instead of ignoring the relation of sanitary conditions and decorative schemes, the architect and client of to-day work out these problems with excellent results. Practical needs are considered just as worthy of the architect as artistic achievements. He is a poor excuse for his profession if he cannot solve the problems of utility and beauty, and work out the ultimate harmony of the house-to-be.

"If one enters a room in which true proportion has been observed, where the openings, the doors, windows, and fireplace balance perfectly, where the wall spaces are well planned and the height of the ceiling is in keeping with the floor space one is immediately convinced that here is a beautiful and satisfactory room, before a stick of furniture has been placed in it. All questions pertaining to the practical equipment and the decorative amenities of the house, should be approached architecturally. If this is done, the result cannot fail to be felicitous, and our dream of our house beautiful comes true!

"Before you begin the decoration of your walls, be sure that your floors have been finished to fulfil their purposes. Stain them or polish them to a soft glow, keep them low in tone so that they may be backgrounds. We will assume that the woodwork of each room has been finished with a view to the future use and decoration of the room. We will assume that the ceilings are proper ceilings; that they will stay in their place, i. e., the top of the room. This is a most daring assumption, because there are so many feeble and threatening ceilings overhanging most of us, that good ones seem rare. But the ceiling is an architectural problem, and you must consider it the beginning of things. It may be beamed and have every evidence of structural beauty and strength, or it may be beamed in a ridiculous fashion that advertises the beams as shams, leading from nowhere to nowhere. It may be a beautiful expanse of creamy modeled plaster resting on a distinguished cornice, or it may be one of those ghastly skim-milk ceilings with distorted cupids and roses in relief. It may be a rectangle of plain plaster tinted cream or pale yellow or grey, and keeping its place serenely, or it may be a villainous stretch of ox-blood, hanging over your head like the curse of Cain."

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Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
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Chas. H. Robbins, 125 S. 11th st., Phila.
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Keystone Blue Paper Co.,
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Builders.

Mitchell Bros., 2125 Race st., Phila.
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Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
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Cement.

Samuel H. French & Co.,
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Lehigh Portland Cement Co.,
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Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

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10th and Chestnut sts.

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Real Estate Trust Bldg.

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868 Postal Bldg., New York City

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Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

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Belfi Bros. & Co., 20-22 S. 19th st.

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22nd and Sedgley ave., Phila.

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C. F. Shellenberger, Builders' Exchange.

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C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

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American Pulley Co.,
4200 Wissahickon ave., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Steel Ceilings.

The Sagendorph Co., Lafayette Bldg., Phila.

Structural Engineer.

Harry C. Eisenbise Co., Penna. Bldg., Phila.
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Terra Cotta (Architectural).

S. B. Dobbs, Bailey Bldg., Phila.
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Heaton & Wood, 1802 Chestnut st., Phila.
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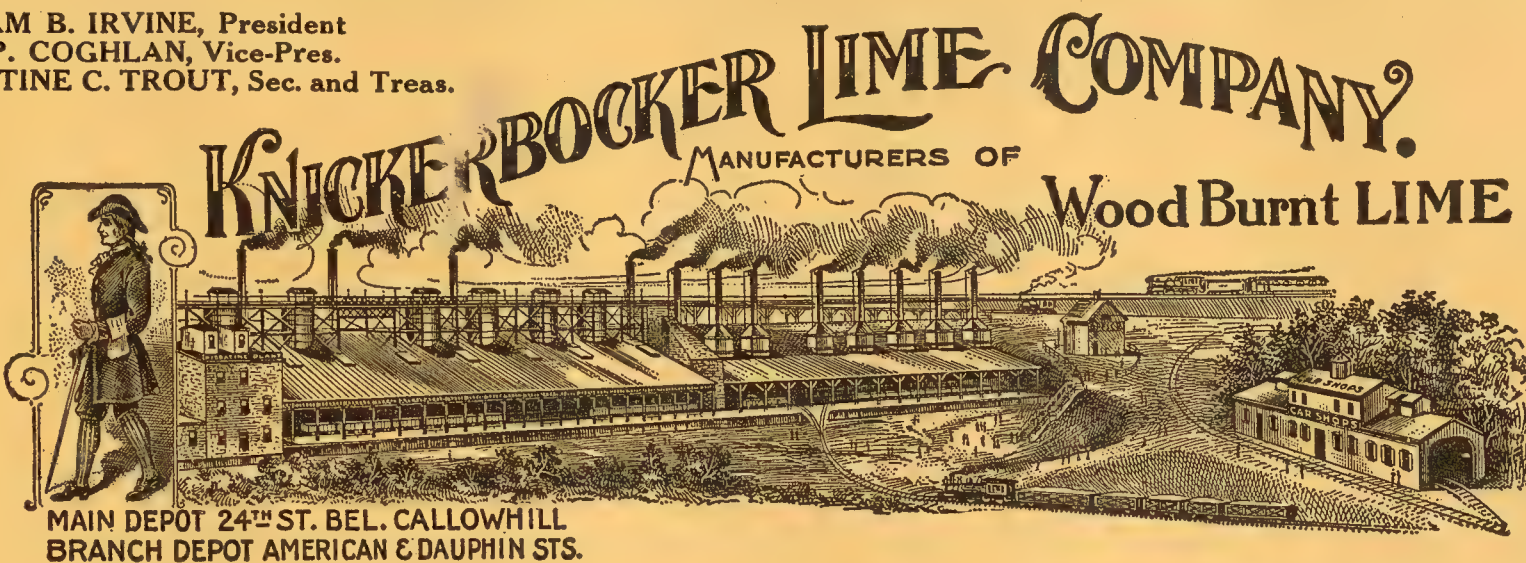
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Vol. XXIX., No. 32.

PHILADELPHIA, WEDNESDAY, AUGUST 12, 1914.

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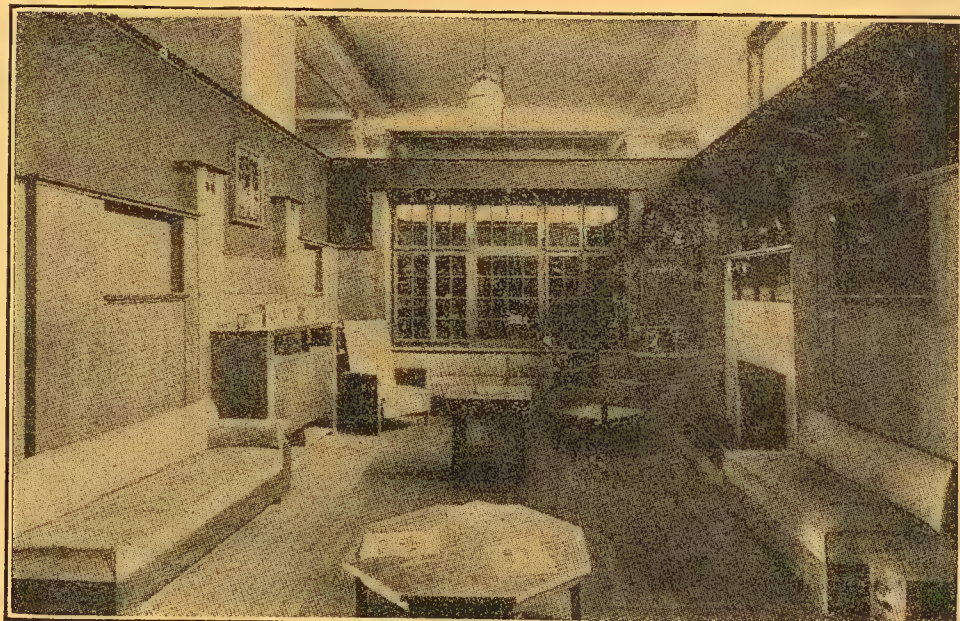
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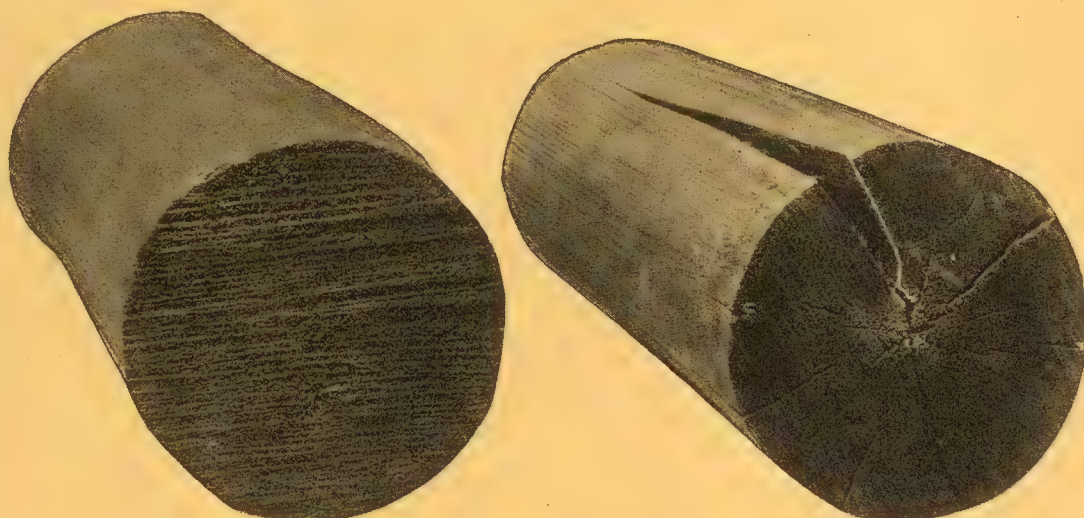
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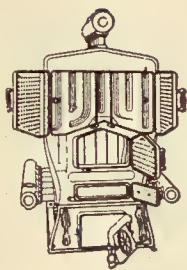
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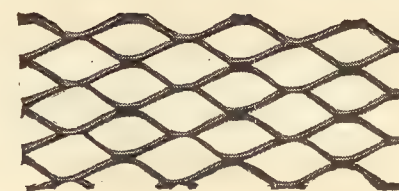
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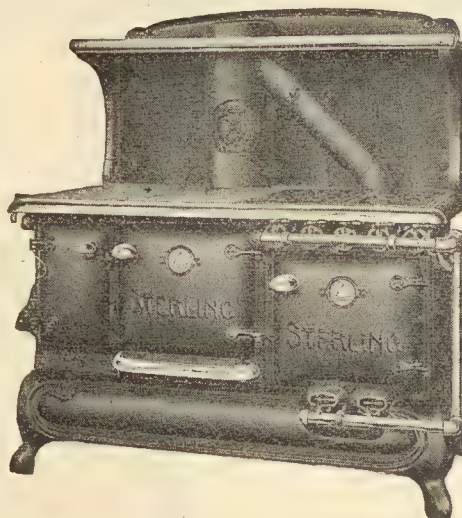


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PHILADELPHIA, WEDNESDAY, AUGUST 12, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (2), Chestnut Hill, Philadelphia. Architect, private plans. Owners, Walter & Henry Scott, Chestnut Hill, Philadelphia. Brick, 2½ stories, 25x30 feet, slate roof, hot water heating, electric lighting, oak floors. Owners taking bids due August 13th. John E. Walt, 204 East Willow Grove avenue, is the only bidder.

Apartment House, 1330-1332 Pine street, Philadelphia. \$40,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Yarrow & Van Pelt, Morris Building, Philadelphia. Brick, fireproof, 6 stories, 32x77 feet, slag roof, electric lighting, hardwood floors, vapor vacuum heating, metal lath, elevators. Architect taking bids due August 15th. In addition to those previously reported, John Morrow Construction Co., 308 South Twelfth street; J. Richard Jackson, Perry Building; H. L. Brown, 1714 Sansom street; Joel W. Hutton & Co., Harrison Building; F. Roe Searing, Perry Building, all of Philadelphia, are figuring.

Police and Fire Stations (alt. and add.), various locations. Architect, Edw. A. Crane, City Hall, Philadelphia. Owner, City of Philadelphia. Brick, 2 and 3 stories, slate roof, steam heating, electric lighting. Owners taking bids due August 17th. F. Roe Searing, Perry Building; Mitchell Bros., 2125 Race street; J. H. Jordan, Twenty-sixth and Oxford streets, all of Philadelphia, are figuring.

Garage (alt. and add.), Germantown avenue and Coulter street, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, P. McGarrigle, on premises. Brick, 2 stories, slag roof, steam heating, electric lighting. Architect taking bids due August 13th. H. E. Baton, Twelfth and Sansom streets; F. B. Davis, 240 North Sixteenth street; George & Borst, 277 South Eleventh street; Specht & Sperry, Heed Building; H. H. Burrell, 1202 Chancellor street; W. J. Gruhler, 219 High street, and F. Elvidge, 5522 Germantown avenue, are figuring.

Hospital (alt. and add.), Broad and Wolf streets, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Methodist Hospital, on premises. Brick, 3 stories, steam heating, electric lighting, metal lath. Architect taking bids due Au-

gust 11th. H. E. Baton, Twelfth and Sansom streets; F. E. Wallace, 1210 Sansom street; A. Raymond Raff, 1635 Thompson street; F. J. Boas, 201 North Broad street, are figuring.

Club House, Moyamensing avenue and Montrose street, Philadelphia. Architect, Charles F. Schaef, 1524 Chestnut street, Philadelphia. Owner, Lithuanian Real Estate Co., on premises. Brick and plaster, 3 stories, 66x81 feet, slag roof (heating and lighting reserved). Architect taking bids due August 14th. William Dougherty, 1610 Sansom street; John Morrow Construction Co., 308 South Twelfth street, and H. L. Brown, 1714 Sansom street, are figuring.

High School for Girls, Broad street and Snyder avenue, Philadelphia. \$700,000. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Stone, steel and concrete, 4 stories, 212x226 feet, slag and slate roof, enamel brick, metal lath, metal sash and frames, waterproofing, dampproofing (steam heating and electric lighting separate bids). Owners taking bids due August 14th. The following is the complete list of contractors figuring: Cramp & Co., Denckla Building; James G. Doak & Co., Crozer Building; Thomas Reilly, 1616 Thompson street; A. Bottoms & Sons Co., 41 South Fifteenth street; Unit Construction Co., New Stock Exchange Building; J. S. Cornell & Sons, Land Title Building; Charles McCaul Co., 1713 Sansom street; Doyle & Co., 1519 Sansom street, all of Philadelphia.

Garage, Oak Lane, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, William B. Mann, Jr., 1012 Seventieth avenue, Oak Lane, Philadelphia. Stone and brick, 1½ stories, 20x15 feet, shingle roof (hot water heating, electric work reserved). Architects have received bids.

Store and Loft Building, 1309 Vine street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, H. S. Marks, care of Architect. Brick, 2 stories, 20x80 feet, slag roof, steam heating, electric lighting. Architects have received bids.

Residence (alt. and add.), 4002 Chestnut street, Philadelphia. Architects, Watson &

Huckel, 1211 Walnut street, Philadelphia. Owner, Dr. J. D. Brittingham, 4010 Chestnut street, Philadelphia. Stone, 3 stories, 22x65 feet, slag roof, electric lighting. Architects have received bids.

Sub-Stations (2), Thirty-second and Market streets and Arsenal Bridge, Philadelphia. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 2 stories, 43x27 feet each, Mastic roof, electric lighting, metal frames and sash. Plans about completed. Owner will take bids in a few days.

Rectory and Convent, Twelfth and Spring Garden streets, Philadelphia. Architect, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets. Owner, Church of the Assumption, Rev. J. Smith, on premises. Stone and brick, 2 and 3 stories. Plans in progress.

Club House, Torresdale, Phila. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, name withheld. Frame, 2 stories, 55x56 feet, shingle roof (heating reserved), electric lighting, metal lath, waterproofing. Architect taking bids due August 14th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; William R. Dougherty, 1610 Sansom street; J. F. Davies, Heed Building; F. W. Van Loon, Denckla Building; Specht & Sperry, Heed Building, all of Philadelphia, are figuring.

Factory, Cottman street and Tacony road, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Keystone Lantern Co., 5033 Portico street. Brick, 4 stories, slag roof. Plans in progress. Bids in ten days.

Residence (alt. and add.), 265 South Nineteenth street, Philadelphia. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, J. M. Gazzam, on premises. Brick, 3 stories, electric lighting, oak floors. Architect has received bids.

Shipping Building, Fifth street and Fairmount avenue, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, H. K. Wampole & Co., 426 Fairmount avenue. Brick, 1 story, 30x90

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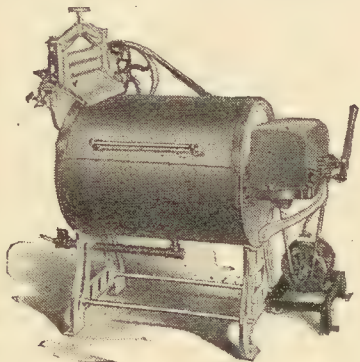
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feet, slag roof. Plans in progress. Architects will soon take bids.

Residence, Ridge avenue and Wigard avenue, Roxborough, Pa. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, William Galt, Roxborough, Philadelphia. Stone, 2½ stories, 40x42 feet, slate roof (heating and lighting and uooring reserved). Architect taking bids, due August 17th. The following are figuring: Thomas M. Seeds, Jr., 1207 Race street; H. E. Baton, Twelfth and Sansom streets; J. F. Davies, Heed Building; W. H. Eddleman & Son, 453 Green lane, Roxborough; E. L. Cuthbertson, 334 Roxborough avenue, Roxborough, Philadelphia.

Tenement House, Front and Fitzwater street, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Workman Property, on premises. Brick and concrete, 3 stories, 25x52 feet, composition roof, steam heating, electric lighting, metal lath, waterproofing, metal sash and frames. Architects taking bids, due August 17th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; William R. Dougherty, 1610 Sansom street; Stokes Brothers, 6723 Musgrave street; Stacy Reeves & Sons, 2011 Market street; R. C. Ballinger & Co., 218 North Thirteenth street; H. H. Burrell, 1202 Chancellor street, all of Philadelphia.

Apartment and Store (alt. and add.), Ninth and South streets, Philadelphia. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner's name withheld. Brick, 4 stories, slag roof, vapor vacuum heating, electric lighting, oak floors, metal lath, waterproofing. Architects taking bids, due August 19th. F. L. Hoover & Sons, 1023 Cherry street, Philadelphia, is the only bidder.

Shop and Laundry Building (alt. and add.), Holmesburg, Pa. Architect, Ed. Crane, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Stone, 1 story, slag roof, consists of interior alteration and repairs. Owner taking bids, due August 17th. W. W. Anstine Co., 1214 Filbert street; F. Roe Searing, Perry Building; Ed. Fay & Sons Co., 2 South Mole street; J. H. Jordan, Thirty-first and Oxford streets, all of Philadelphia, are figuring.

Theatre (alts.), Seventh and Girard avenue,

Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, German Theatre, on premises. Consists of interior alterations. Architect taking bids, due August 14th. The following are figuring: Ketcham & McQuade, 1029 Brown street; Burd P. Evans Co., Thirteenth and Wallace streets; A. Raymond Raff, 1635 Thompson street; George Kessler Contracting Co., Drexel Building, all of Philadelphia.

Factory Building, Wheatsheaf lane, Philadelphia. Architect, private plans. Owners, Independent Manufacturing Co., 3017 Edgemont street, Philadelphia. Brick and concrete, 2 stories, 33x50 feet, slag roof, metal treads (heating and lighting reserved). Owners taking bids, due August 13th. Edw. Fay & Sons, 2 South Mole street; Charles F. Gruber, Glenside, Pa.; James Connor, 2848 Frankford avenue, Philadelphia, are figuring.

Store and Office Building, 304 Arch street, Philadelphia. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owners, Friends' Book Store, on premises. Brick and steel, fireproof, 6 stories, 40x80 feet, slag roof (heating and lighting reserved). Architect taking bids, due August 19th. The following are figuring: R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Grau & Co., 1709 Sansom street; J. E. & A. L. Pennock, Land Title Building; F. L. Hoover & Sons, 1023 Cherry street; W. H. Gruhler, 219 High street; William R. Dougherty, 1610 Sansom street, all of Philadelphia.

Apartments (alt. and add.), 1400 North Fifteenth street, Philadelphia. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Dr. Ed. Baum, Perry Building, Philadelphia. Brick, 3 stories, 20x170 feet, slag roof, steam heating, electric lighting, oak floors, metal lath. Architect taking bids, due August 17th. George Hogg, 1634 Sansom street; Stacy Reeves & Sons, 2011 Market street; John McKenna & Son, 1032 Race street, and McCloskey-Bahls, Hale Building, all of Philadelphia, are figuring.

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Sunday School, Forty-first street and Mantua avenue, Philadelphia. \$16,000. Architects, Lachman & Murphy, Witherspoon Building Philadelphia. Owner, Calvary Evangelical Lutheran Church, care of Rev. J. M. Tweedale, 4110 Parkside avenue. Brick, 1 story and basement, 40x60 feet, slate roof, steam heat, electric lighting. Contract awarded to Alexander Chambley, 243 South Tenth street, Philadelphia.

Passenger Station (alt. and add.), North Philadelphia, Pa. \$70,000. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and terra cotta, 1 story, slag and tile roof, safety treads, electric lighting, steam heating, waterproofing. Contract awarded to Keystone State Construction Co., Pennsylvania Building, Philadelphia.

Warehouse and Show Rooms, 203-05 North Broad street, Philadelphia. \$60,000. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owners, Benjamin Alexander, Hale Building, and R. A. Heyman, Land Title Building, Philadelphia. Brick, steel and concrete, fireproof, 6 stories, 40x100 feet, slag roof, steam heating, electric lighting, elevators, metal frames and sash, automatic sprinkler. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Residence (alt. and add.), Chestnut Hill, Philadelphia. \$3,000. Architect, Herbert J. Wetherill, 328 Chestnut street, Philadelphia. Owner, E. H. Butler, Chestnut Hill, Philadelphia. Brick and plaster, 2½ stories, 16x42 feet, shingle roof (heating and lighting reserved). Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Store (alt. and add.), 3924 Market street,

Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, M. J. Callahan, on premises. Brick, 1 story, slag roof, hot water heating, electric lighting. Contract awarded to W. E. Biscoe, 3950 Ludlow street, Philadelphia.

Church (alt. and add.), Fifth street, above Venango street. \$2,200. Architect, Adiel Martin Stern, 413 North Thirty-eighth street, Philadelphia. Owner, St. Matthew's Reformed Church, Rev. W. O. Sylvius, on premises. Stone, 1 story, consists of general interior alterations. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Phila.

Factory Building, Nicetown, Philadelphia. \$150,000. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, George W. Blabon Co., Nicetown, Philadelphia. Reinforced concrete, brick and steel, 5 stories, 72x273 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, metal sash and frames, rolling steel shutters. Contract awarded to William Steele & Sons, 1600 Arch street, Philadelphia.

Store Building, 103 South Thirteenth street, Philadelphia. \$11,000. Architect, private plans. Owners, Kennedy Brothers, Thirteenth and Arch streets, Philadelphia. Brick, 4 stories, slag roof, electric lighting, metal lath. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Garage, Oak Lane, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, William B. Mann, Jr., 1012 Seventieth avenue, Oak Lane, Philadelphia. Stone and brick, 1½ stories, 20x15 feet, shingle roof (hot water heating and electric work reserved). Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

PENNSYLVANIA**Construction News**

Church, Shenandoah, Pa. \$16,000. Architects, Leh & Bitting, South Bethlehem, Pa. Owner, United Evangelical Church, Shenandoah, Pa. Frame, 2 stories, 41x75 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

Church, Northampton, Pa. \$20,000. Architects, Leh & Bitting, South Bethlehem, Pa.

Owner, St. Mary's R. C. Church, Northampton, Pa. Brick, 3 stories, 72x68 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Allentown, Pa. \$10,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, Walter Ziegenfuss, Allentown, Pa. Brick, 2½ stories,

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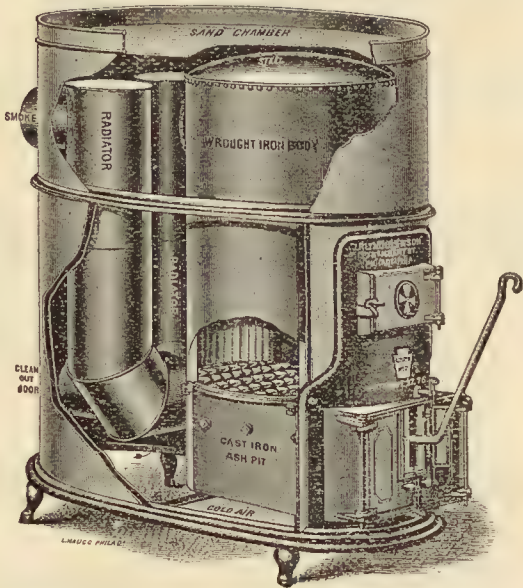
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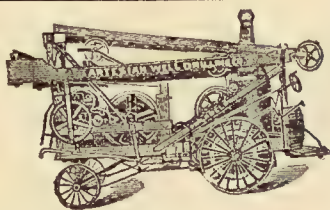
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40x44 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Allentown, Pa. \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, James Holman, Allentown, Pa. Hollow tile and stucco, 2½ stories, 38x40 feet, tile roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Picture Theatre, Coplay, Pa. \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, John L. Dugan, Coplay, Pa. Brick, 1 story, 30x89 feet, slag roof, steam heating, electric lighting, concrete floors, tile work. Plans in progress.

High School, Allentown, Pa. \$250,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Board of Education, Thomas P. Wenner, Secretary, Allentown, Pa. Brick, concrete and steel, fireproof, 3½ stories, 250x150 feet, inlaid slate roof, metal lath, waterproofing and dampproofing (heating and electric work separate bids). Owners taking bids due August 25th.

Residences (4), Reading, Pa. \$12,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Evan D. Keehn, 513 South Fourteenth street, Reading, Pa. Brick and frame, 2½ stories, 43x14 feet each, slate and tin roof, hot air heating, gas and electric lighting. Plans about completed. Owner will take bids in a few days.

Residence, Reading, Pa. \$3,000. Architect, H. J. Maurer, 33 North Sixth street, Reading, Pa. Owner, Charles Merritt, Reading, Pa. Stucco, 2 stories, 26x30 feet, shingle roof, hot air heating, electric lighting. Owner taking bids.

Church and Sunday School, Easton, Pa. \$30,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, St. Luke's Lutheran Church, Easton, Pa. Stone, 1 story, 50x110 feet, slate roof, steam heating, gas and electric lighting. Architect taking bids.

School Building, Myerstown, Pa. \$40,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Brick and stone, 2 stories, slag roof, electric lighting, slate blackboards. Plans about completed. Owners will take bids in two weeks.

Residence, Wyomissing, Pa. \$35,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, H. K. Janssen, Wyomissing, Reading, Pa. Stone, 3 stories, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath, dampproofing and waterproofing. Architect has received bids.

Bank (alt. and add.), Hamburg, Pa. Architect, H. J. Maurer, 33 North Sixth street, Reading, Pa. Owners, Hamburg Savings Bank, Hamburg, Pa. Brick, 1 story, 54x17 feet, tin roof, steam heating, tile work, electric lighting, metal lath, bank fixtures. Architect has received bids.

Residence (alt. and add.), Elizabethtown, Pa. \$8,000. Architect, Calvin J. Young, 520

Washington street, Reading, Pa. Owner, Vere Troichler, Elizabethtown, Pa. Stone and stucco, 2½ stories, 35x60 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Owner taking bids due August 18th.

Residences (2), Reading, Pa. \$4,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, J. R. Yost, Reading, Pa. Brick and frame, 2½ stories, 20x48 feet, slate and tin roof, hot air heating, gas and electric lighting. Owner taking bids.

Residence (alt. and add.), Muhlenberg Township, Pa. \$1,500. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, name withheld. Frame and stucco, 2½ stories, 20x22 feet, slate roof. Plans in progress.

School (add.), Ridley Park, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, School Board, John B. Partridge, Secretary, 118 Chester Pike, Ridley Park, Pa. Brick and stone, 2 stories, slate roof (heating, plumbing, electric work separate bid), metal lath, metal ceilings, slate blackboards. Owners taking bids due August 19th (revised). The following are figuring: Pomeroy Construction Co., 1609 Ranstead street; Mitchell Bros., 2125 Race street; George F. Pawling & Co., Broad and Vine streets; H. E. Grau Co., 1707 Sansom street; Stacy Reeves & Sons, 2011 Market street; Henry L. Brown, 1714 Sansom street, all of Philadelphia, and J. W. Meckert & Co., Ridley Park, Pa.

Sanitorium (alt. and add.), Cresson, Pa. Architect, George S. Welsh, Wilkes-Barre, Pa. Owner, Department of Health, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia. Brick, 3 stories, asbestos roof, metal ceilings, kalamein doors and trimmings (steam heating, electric lighting separate bids); consists of addition to main building. Owners will sub-let all contracts.

Residence and Store (alt. and add.), Lancaster, Pa. \$15,000. Architects, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Frederick Amole & Bro., Lancaster, Pa. Brick, 3 stories, 33x150 feet, slag roof, steam heating, electric lighting, tile work, metal ceilings. Plans in progress.

Apartment House (alt. and add.), Lancaster, Pa. \$10,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, Lewis Cohn, 114 East Vine street, Lancaster, Pa. Brick, 3½ stories, 38x82 feet, slag roof, hot water heating, electric lighting, tile work, gas ranges, metal lath, dumb-waiter. Owner is sub-letting all contracts.

Bank and Office Buildings, Scranton, Pa. \$200,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Union National Bank, W. L. Connell, President, 420 Lackawanna avenue, Scranton, Pa. Brick, stone, terra cotta and steel, fireproof, 12 stories, 41x85 feet, tile roof, dampproofing and waterproofing, wrought iron treads, expanded metal lath, hollow tile fireproofing (lockers reserved), separate bids for heating, plumbing, electric lighting and power, ele-

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vators, incinerator, vacuum cleaning. Architects taking bids due August 13th. Metzher & Fisher, Denckla Building, and James H. Wells, Heed Building, Philadelphia, are figuring.

Residence, Rosemont, Pa. Architect, Ed. M. Van Voorhees, Hale Building, Philadelphia. Owner, Theodore Barlow, care of Architect. Brick and plaster, 2½ stories, 27x51 feet, slate roof, oak floors (heating and lighting reserved). Architect taking bids due August 12th. Milton Young, Overbrook, Pa.; George L. Croll, Rosemont, Pa.; M. N. Croll, Radnor, Pa.; J. D. Lengel, Wayne, Pa., and W. D. Smedley, Narberth, Pa., are figuring.

Residences (2), Modena, Pa. Architect, L. V. Boyd, Harrison Building, Philadelphia. Owner, Megargee Paper Mills, Modena, Pa. Hollow tile and stucco, 2½ stories, slate and slag roof, hot water heating, electric lighting. Owners taking sub-bids.

Residence (alt. and add.), Merion, Pa. Architect, L. V. Boyd, Harrison Building, Philadelphia. Owner, George W. McKinney, Narberth, Pa. Stone, 2½ stories, 23x41 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street, Philadelphia; Specht & Sperry, Heed Building, Philadelphia; Mowrer Bros., Merion, Pa.; W. D. Smedley, Narberth, Pa.

School (add.), Easton, Pa. \$18,000. Architects, Leh & Bittin, South Bethlehem, Pa. Owner, Board of Education, Easton, Pa. Brick, 2½ stories, 40x68 feet, slate roof, slate blackboards (heating and electric work separate bids). Owners are taking bids.

Bungalow, South Bethlehem, Pa. \$6,000. Architects, Leh & Bittin, South Bethlehem, Pa. Owner, J. C. Henry, South Bethlehem, Pa. Hollow tile and stucco, 1 story, 43x49 feet, shingle roof, hot water heating, electric lighting, metal lath, dampproofing. Architects taking bids.

Theatre and Stores, Allentown, Pa. \$75,000. Architect, E. M. Pickin, Allentown, Pa. Owner, Frederick B. Gerner, 834 Hamilton street, Allentown, Pa. Brick and terra cotta, 3 stories, 82x230 feet, slag roof, metal lath, dampproofing, slag roof (heating and lighting reserved), composition floors. Architect taking bids due August 14th. F. Roe Searing, Perry Building, Philadelphia, is figuring.

School, Cheltenham, Pa. \$25,000. Architect, H. C. Wise, Franklin Building, Philadelphia. Owner, Board of Education, care of T. Holden, Fox Chase, Pa. Brick, 2 stories, 52x75 feet, slate roof (heating and lighting separate bids). Revised plans in progress.

Store and Apartments, Tamaqua, Pa. Architect, Benjamin R. Stevens, 1737 Filbert street, Philadelphia. Owner, Dr. G. M. Wilford, Tamaqua, Pa. Brick, 4 stories, 100x125 feet, slag roof, steam heating, electric lighting. Plans in progress. Bids in two weeks.

Residence, Rose Valley, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, L. S. Oliver, Moylan, Pa. 2½ stories, 22x80 feet, tile roof, hot water heating, electric lighting. Plans in progress.

Residence and Garage (alt. and add.), Moylan, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, Morris B.

Saul, Moylan, Pa. Brick and plaster, 2½ stories, tile roof, electric lighting. Plans in progress.

Church and Parsonage, Lehigh, Pa. \$50,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Zion Reformed Church, care of H. B. Kennel, Lehigh, Pa. Brick, stone trimmings, 1 and 3 stories, 105x65 feet and 33x61 feet, slate roof, steam heating, electric lighting. Owners taking bids. Andrew Breslin, Summit Hill, Pa., and H. J. Wenzelberger, Phillipsburg, N. J., are figuring.

Sub-Stations (2), Paoli and Bryn Mawr, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 2 stories, 43x27 feet each, Mastic roof, metal frames and sash. Owner has received bids.

Inspection Shed, Paoli, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Steel, 1 story, 100x257 feet, slag roof, steel sash, metal lath (heating and electric work reserved). Owner has received bids.

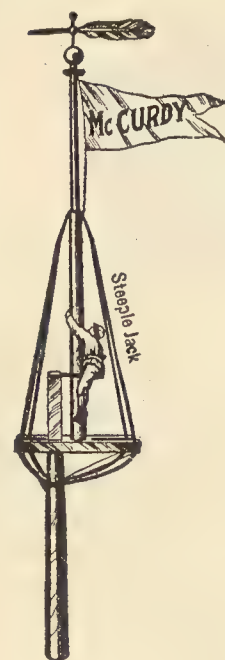
Post Office (add.), Renovo, Pa. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owner, John P. Dwyer, care of "Philadelphia Record," 917 Chestnut street, Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting, new fixtures. Owner will sub-let all contracts.

Church, Lebanon, Pa. \$50,000. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St. Gertrude's R. C. Church, care of Rev. A. Kappes, Lebanon, Pa. Brick, 2 stories, 80x150 feet, tile roof, steam heating, electric lighting. Architect taking bids due August 15th. William R. Dougherty, 1610 Sansom street, Philadelphia, Pa.; John Stapf, Harrisburg, Pa., and G. P. Speicher, I. I. Veller, J. A. Holland, Shenk Bros., all of Lebanon, Pa.

Church, Ridley Park, Pa. \$25,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, Ridley Park Presbyterian Church, Ridley Park, Pa. Stone, 2 stories, 70x120 feet, slate and slag roof, metal frames and sash (heating and electric work separate bids). Architects taking revised bids due August 17th. The following are figuring: Pomeroy Construction Co., 1609 Ransstead street; H. H. Burrell, 1204 Chancellor street; Jacob Myers & Sons, Witherspoon Building; Joseph Bird Co., 213 North Eleventh street; Milton W. Young, Overbrook, Phila.; William Provost, Jr., 1226 Walnut street, Chester, Pa.

Residence and Garage, Bryn Mawr, Pa. \$30,000. Architect, W. Wayne, Jr., 311 South Hicks street, Philadelphia. Owner, Lawrence D. Beggs, 113 South Third street, Philadelphia. Hollow tile and plaster, 2½ stories, 80x100 feet, slate roof, oak and cork floors, canvas roof (heating and lighting reserved). Architect taking revised bids, due August 12th. George & Borst, No. 277 South Eleventh street; Guernsey-O'Meara Co., North American Building, both of Philadelphia, are figuring.

High School, Allentown, Pa. \$250,000. Architects, Ruhe & Lange, 12 North Sixth



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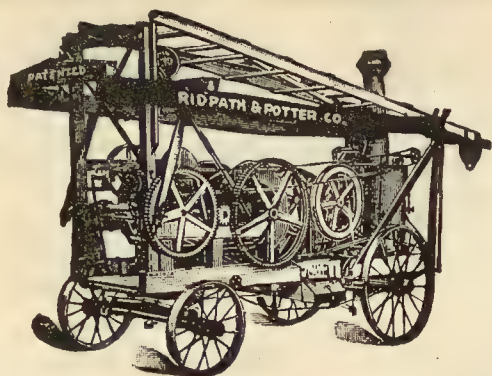
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587 Bourse Building

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street, Allentown, Pa. Owners, Board of Education, Allentown, Pa. Brick, stone and steel, fireproof, 4 stories, 151x241 feet, slag roof, metal lath, dampproofing, tile floors (heating and lighting separate bids), enamel brick. Owners taking bids, due August 26th. Melody & Keating, Bailey Building, Philadelphia, is figuring. Plans may be obtained upon a deposit of a certified check for \$200.

Residence (add.), Yardley, Pa. Architects,

Heacock & Hokanson, Bailey Building, Philadelphia. Owner, T. S. Cadwalader, Yardley, Pa. Frame, 1 story, 20x20 feet, tin roof, electric lighting, oak floors. Architects taking bids, due August 12th. The following are figuring: F. B. Davis, 240 South Sixteenth street; E. J. Kreitzburg, 1345 Arch street; W. H. Eddleman & Sons, 453 Green lane, Roxborough, all of Philadelphia, are figuring.

PENNSYLVANIA

Contracts Awarded

Church and Sunday School, Ephrata, Pa. \$30,000. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, Bethany Reformed Church, Ephrata, Pa. Brick, stone trimmings, 1 and 2 stories, 75x105 feet, slate roof (hot air heating reserved), electric lighting. Contract awarded to Harvey Gerhart, Ephrata, Pa.

Parish House (add.), Lebanon, Pa. \$15,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, St. Luke's Episcopal Church, Lebanon, Pa. Stone, 2 stories, 27x50 feet, slate roof (steam heating and electric work reserved) Contract awarded to H. Buffamoyer, Lebanon, Pa.

Bakery and Stable, Allentown, Pa. \$30,000. Architect, Charles Balderston, 411 Walnut street, Philadelphia. Owner, Frank C. Kolb, Reading, Pa. Brick, 2 stories, 109x154 feet, asbestos roof, maple floors (heating and lighting reserved), metal lath. Contract awarded to W. A. Stein & Co., Allentown, Pa.

Residence, Lancaster, Pa. \$15,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, C. A. B. Zook, Hamilton Apartments, Lancaster, Pa. Frame and stucco, 2½ stories, 36x80 feet, shingle roof, hot air heating, gas and electric lighting, tile work, hardwood floors, metal lath. Contract awarded to Ivan L. Rohrer, Eden, Lancaster, Pa.

Store (alt.), Lancaster, Pa. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, M. Frailk, Lancaster, Pa. Consists of

new front and interior changes, electric lighting, tile work. Contract awarded to Peter Wohlsen, 340 College avenue, Lancaster, Pa.

School Saucon Township, Pa. \$15,000. Architects, Leh & Bitting, South Bethlehem, Pa. Owner, School Board of Lower Saucon Township. Brick, 2 stories, 75x60 feet, slate roof, slate blackboards. Contract awarded to South Murdinger, Bethlehem, Pa.

Municipal Building, Lebanon, Pa. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owner, Lebanon Independent Borough, Daniel W. Hain, Clerk. Brick, brownstone trimmings, 2 stories, 42x70 feet, Washington vein slate roof, steam heating, gas and electric lighting, metal lath, waterproofing. Contract awarded to Swope Bros., Lebanon, Pa.

Passenger Station, Elizabethtown, Pa. \$40,000. Architects, Zantzing, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Stone, 1 story, 27x75 feet, slag and slate roof, steam heat, electric lighting, metal lath, dampproofing. Contract awarded to Titzel Construction Co., Woolworth Building, Lancaster, Pa.

Farm House (alt. and add.), Walnut Hill, Pa. Architects, Zantzing, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, George H. Lorimer, Wyncote, Pa. Frame, 2 stories, shingle roof, steam heating. Contract awarded to H. H. Burrell, 1202 Chancellor street, Philadelphia.

George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Capitol Building, Trenton, N. J. Stone and frame, 2 stories, slate roof, electric lighting, concrete and wood floors. Architect taking bids, due August 6th. The following are figuring: Burd P. Evans & Co., Thirteenth and Wallace sts.; Berry-Goodwin Co., Drexel Building; National Fireproofing Co., Land Title Building; Edw. Fay & Sons, 2 South Mole street, all of Philadelphia, Pa.; Butz & Clader, Allentown, Pa.; John D. Hornby, Glen Gardner, N. J.; John Milnes Co., Port Richmond, N. Y.; Langan Engineering and Construction Co. 75 Montgomery street, Jersey City, N. J.; John C. Cooper, Warrenville, N. J.; Walter L. Scriven, Plainfield, N. J.; E. P. Bayler, Hampton, N. J., and Hoffman & Co., John C. Conover and Sargent Bros., all of Somerville, N. J.

Bank (remodeling), Third and Market streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Security Trust Co., on premises. Consists of remodeling of banking quarters on first floor, electric lighting, tile and marble work, bronze and mahogany bank fixtures. Architect ready for bids.

Church, Audubon, N. J. \$20,000. Architect, John H. Mowere, 3110 Columbia avenue, Philadelphia. Owners, Holy Trinity Evangelical Lutheran Church, Rev. William H. Harding, Audubon, N. J. Stone, 1 story, 60x39 feet, Star, Bangor or Washington vein slate, gas and electric lighting, metal lath (heating reserved). Owners have received revised bids.

School, Chesterfield, N. J. \$7,500. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, School Board, care of Miss Mary Braislins, Crosswicks, N. J. Brick, 1 story, 58x40 feet and 23x40 feet, slate roof, hot air heating, metal lath, safety treads, slate blackboards. Owners taking bids (revised), due August 17th. Plans may be obtained from Architect.

Church, Trenton, N. J. \$30,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Cadwalader Heights M. E. Church, Trenton, N. J. Stone, 1 story, 68x90 feet, slate roof, steam heating, electric lighting. Plans completed. Owners are taking bids.

School (alt. and add.), Barnegat, N. J. \$7,500. Architects, Moffet & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Union Township, Barnegat, N. J. Hollow tile and frame, 2 stories, 38x24 feet, tin roof, mechanical system warm air heating, metal lath, slate blackboards. Plans about completed. Owners will take bids in one week.

Residence, Collingswood, N. J. \$6,000. Architects, Moffet & Stewart, Jessup Building, Camden, N. J. Owner, W. Earle Powel, Merchantville, N. J. Hollow tile and stucco, 1½ stories, 40x60 feet, slate roof, hot water heating, gas and electric lighting, oak floors. Plans about completed. Architects will take bids in a few days.

Freight House (add.), Third and Mechanic streets, Camden, N. J. Architect, W. Hunter, Twelfth and Market street, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Twelfth and Market streets, Philadelphia. Brick, 2 stories, 40x180 feet, slag roof, hot water heating, electric lighting, waterproofing. Owners taking bids, due August 18th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; F. A. Havens & Co., 845 North Nineteenth street; J. Sims Wilson Co., 1125 Brown street; A. L. Carhart, Hale Building; Charles Gilpin, Harrison Building; W. W. Lindsay, Harrison Building; Brown-King Const. Co., Harrison Building; Enos L. Seeds, 6314 Wissahickon avenue; Charles McCaul Co., 1713 Sansom street; Burd P. Evans Co., Thirteenth and Wallace streets; Irwin & Leighton, 126 North Twelfth street; F. W.

NEW JERSEY

Construction News

Residence, Trenton, N. J., \$6,000. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, Julian Henk, Trenton, N. J. Brick and stucco, 2½ stories, 25x50 feet, slate and tin roof, hot water heating, electric lighting, metal lath. Plans in progress.

Residence, Trenton, N. J. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner's name withheld. Frame and stucco, 2½ stories, 30x56 feet, slate roof, hot water heating, electric lighting, tile and hardwood floors, metal lath. Architect taking

bids, due August 6th. Stephen Dickneit, Charles Barlow, Charles Smith, Grover Lanning and Frank Borowitz, all of Trenton, N. J., are figuring.

Stores and Apartments, Princeton, N. J., \$25,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Cornelius Dinnen, Princeton, N. J. Brick, stone trimmings, 3 stories, 53x52 feet, slag roof, steam heating, gas and electric lighting, tile work. Architect taking revised bids, due August 5th.

Cow Barn, Glen Gardner, N. J. Architect,

Van Loon, Denckla Building, and Roydhouse-Arey Co., Fidelity Building, all of Philadelphia, are figuring.

Residence, Atlantic City, N. J. \$20,000. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Charles Summer Moore, 1512 Atlantic avenue, Atlantic City. Brick, 2½ stories, 50x50 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Builders, Atlantic Building Co., Union National Bank Building, Atlantic City, N. J., taking sub-bids on all lines.

School, Sohors Point, N. J. \$25,000. Architect, Earle M. Henderer, Ocean City, N. J. Owners, Board of Education, Somers Point, N. J. Brick and hollow tile, 2 stories, 75x58 feet, slag roof, warm air heating, electric lighting, metal lath, dampproofing and waterproofing (blackboards reserved). Owners taking bids, due August 17th. The following are figuring. Alex. Chambley, 245 South Tenth street, Philadelphia; F. Roe Searing, Perry Building, Philadelphia; Abel Bottoms & Sons Co., 41 South Fifteenth street, Philadelphia; W. A. Richman, Moorestown, N. J.; James Yates, Pleasantville, N. J.; Clayton E. Shappell, 4803 Ventnor avenue, Ventnor, N. J.; Charles S. Corson, 1318 Atlantic avenue, Atlantic City, N. J.; W. Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.

School, Stone Harbor, N. J. \$12,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owners, Board of Education, Stone Harbor, N. J. Rough cast, 2 stories, asbestos shingle roof, gas and electric lighting, slate blackboards. Plans about completed. Owners will take bids in one week.

Ice Plant, Atlantic City, N. J. Architects, Stout & Riebenaek, Bartlett Building, Atlantic City, N. J. Owner, Louis H. Donnelly, 118 States avenue, Atlantic City. Brick and concrete, 2 stories, 61x77 feet, concrete and slag roof, electric lighting, concrete floors. Plans in progress.

Bungalow, Ventnor, N. J. \$10,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, J. B. Thompson 2902 Pacific avenue, Atlantic City. Brick, hollow tile and stucco, 2 stories, 36x110 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Revised plans in progress.

Apartment House (alt. and add.), Atlantic City, N. J. \$7,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner's name withheld. Brick, 3 stories, 26x100 feet, slag roof, hot water heating, gas and electric lighting, metal lath, waterproofing and dampproofing. Architect ready for bids.

Hotel (add.), Atlantic City, N. J. \$500,000. Architects (associated), Vivian B. Smith and Earle M. Henderer, Sheen Building, Atlantic City, N. J. Owners, Hotel Rudolf Co., Atlantic City, N. J. Brick, steel and terra cotta, fireproof, 11 stories, 100x175 feet, tile and composition roof, metal lath, waterproofing and dampproofing (4 elevators, heating and mechanical plant, electric work, kitchen and laundry fixtures reserved by architects). Plans will be ready for bids August 17th. Bids due September 1st.

School (alts.), Linwood, N. J. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owners, School Board, care of William Lear, Linwood, N. J. Consists of new stairs and partitions. Owners are taking bids.

New Jersey

Contracts Awarded

Asylum (alt.), Blackwood, N. J. \$5,000. Architect, Charles J. Brooke, 518 Federal st., Camden, N. J. Owner, Camden County Board of Freeholders, Court House, Camden, N. J. Consists of new plumbing. Contract awarded to L. C. Simpson Plumbing & Heating Co., 818 Division street, Camden, N. J.

Residence (alt. and add.), Atlantic City, N. J. \$4,500. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, H. Kendall Read, 53 North Aberdeen avenue, Atlantic City, N. J. Frame, 3 stories, slate roof, hot water heating, electric lighting. Contract awarded to Atlantic Building Co., Union National Bank Building, Atlantic City, N. J.

Residence, Roland Park, Md. \$7,000. Architect, James R. Edmunds, Keyser Building, Baltimore, Md. Owner, Architect. Frame and stucco, 2½ stories, 27x35 feet, slate roof, steam heating, electric lighting, tile work. Architect received bids August 9th.

Residences (25), 701 to 749 South Curley st., Baltimore, Md. \$26,000. Architect, private plans. Owner, John T. Donahue, 4511 Eastern avenue, Baltimore, Md. Brick, 2 stories, 12x41 feet each, Carey roof, hot air heating, gas lighting. Owner is sub-letting all contracts.

Residences (5), 1017 to 1025 Poplar Grove street, Baltimore, Md. \$10,000. Architect, W. B. Gerwig, Equitable Building, Baltimore, Md. Owner, James Keelty, Poplar Grove and Mosher streets. Brick, 2 stories, 15x55 feet each, tin roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Factory, Cambridge, Md. \$25,000. Architect, Arthur Fowne, 708 Linwood avenue, Baltimore, Md. Owner, Phillips Can Co., Cambridge, Md. Brick and concrete, 2 stories, 50x150 feet, slag roof, electric lighting, concrete floors, waterproofing and dampproofing, elevator. Plans in progress.

Residence, Fairne avenue and South Grantly street, Baltimore, Md. \$4,000. Architect, J. R. Forsythe, 232 St. Paul street, Baltimore, Md. Owner, F. E. Yewell, 433 Title Building, Baltimore, Md. Frame 2½ stories, 26x37 feet, slate roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residences (14), Bentalon street, Baltimore, Md. \$24,000. Architect, private plans. Owner, George Klien, 2909 Lorman street, Baltimore, Md. Brick, 2 stories, 14x28 feet each, slag roofs, hot air heating, electric lighting. Owner is sub-letting all contracts.

Warehouse, 600 North Howard street, Baltimore, Md. \$10,000. Architect, private plans. Owner, Enterprise Steam & Hot Water Heating Co., 407 North Howard street, Baltimore, Md. Brick, 4 stories, 20x62 feet, slag roof, steam heating, electric lighting, concrete floors, elevator. Owners are sub-letting all contracts.

School, Cumberland, Md. \$35,000. Architects, Holmboe & Lafferty, Clarksburg, W. Va. Owner, Allegheny County School Commission, Cumberland, Md. Brick, fireproof, 2 stories, 64x85 feet, composition roof, hot air heating, gas and electric lighting, metal lath, waterproofing and dampproofing, slate blackboards. Owners taking bids due August 22nd.

Church, Kenwood avenue and O'Donnell street, Baltimore, Md. \$100,000. Architect, Bruno Wozny, 381 Main street, Springfield, Mass. Owner, St. Casimir's R. C. Church, Baltimore, Md. Stone, 3 stories, 64x155 feet, slate roof, steam heating, electric lighting, tile work, metal lath, dampproofing and waterproofing. Owners taking bids. R. B. Mason, 309 West Madison street, Baltimore, Md., and Edward Watters & Co., 509 North Charles street, Baltimore, Md., are figuring.

Factory and Warehouse, Eager and Concord streets, Baltimore, Md. \$25,000. Architect, C. M. Anderson, 324 North Charles street, Baltimore, Md. Owner, Dix Manufacturing Co., 1021 Guilford avenue, Baltimore, Md. Reinforced concrete, 2 stories, 60x76

Bungalows (3), Ventnor, N. J. \$3,200 each. Architect, Vivian B. Smith, Sheen Building, Atlantic City. Owner, Thomas G. Sheen, 1542 Atlantic avenue, Atlantic City. Frame, 1½ stories, 24x34 feet each, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Wesley Porch, Sheen Building, Atlantic City, N. J.

MARYLAND Construction News

feet, slag roof, electric lighting, concrete floors, metal lath, dampproofing and waterproofing. Plans in progress.

Residence, Green Spring Valley, Md. Architect, Laurence Hall Fowler, 347 North Charles street, Baltimore, Md. Owner, Mrs. W. A. Manley, Catonsville, Md. Brick, 2½ stories, 35x56 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Residences (7), Eleventh street, between Edmondson and Harlem avenues, Baltimore, Md., \$17,500. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore. Owner, John J. Carlin, 215 St. Paul street, Baltimore. Brick, 2½ stories, 22x36 feet each, slate roof, steam heating, hardwood floors, tile work. Owner is sub-letting all contracts.

Residences (4), Roland Park, Md. Architect, E. L. Palmer, Roland Park, Md. Owners, Roland Park Co., Roland Park, Md. Stucco, 2½ stories, 32x45 feet each, slate roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Owner is sub-letting all contracts.

School, Thurmont, Md. \$28,000. Architect, B. Elvard Kepner, Frederick, Md. Owners, Frederick County School Commissioners, C. F. Flook, President, Frederick, Md. Brick, 2½ stories, concrete roof, steam heating, electric lighting, concrete and wood floors, metal lath, slate blackboards. Owners taking bids. The following are figuring: J. L. Robinson Construction Co., Knickerbocker Building, Baltimore, Md.; Consolidated Engineering Co., Calvert Building, Baltimore, Md.; A. R. Warner, Waynesboro, Pa.; C. Erb, Westminster, Md., and Hahn & Betson, Lloyd Culler, F. C. Kemp, Harlan Hagan, all of Frederick, Md.

Residence, Guilford, Md., \$15,000. Architect, E. L. Palmer, Roland Park, Md. Owner, Eugene Greenway, Calvert Building, Baltimore, Md. Brick, 2½ stories, 62x49 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids. The following are figuring: Gladfelter & Chambers, 2072 Woodberry avenue; Singer-Pentz Co., Equitable Building; C. Walter Torell, Eutaw and Dolphin streets; Cowan Building Co., 106 West Madison street, all of Baltimore, Md., and Roland Park Co., Roland Park, Md.

Maryland

Contracts Awarded

Residence (Alt.), 2730 North Charles street, Baltimore, Md. Architects, Elliott & Emmart, Union Trust Building, Baltimore, Md. Owner, William H. Maltbie, on premises. Frame and stucco, 2½ stories, slate roof, hot water heating, electric lighting. Contract awarded to Edward Pilert, 15 East Fayette street, Baltimore, Md.

Residence, Windsor Hills, Baltimore, Md. \$25,000. Architect, E. L. Palmer, Roland Park, Md. Owner, S. H. Stein, 217 East Baltimore street, Baltimore, Md. Brick and stucco, 2½ stories, 29x103 feet, slate roof,

steam heating, electric lighting, hardwood floors, metal lath. Contract awarded to E. G. Turner, 3406 Bateman avenue, Baltimore, Md.

Residence (alt. and add.), Roland Park, Baltimore, Md. \$18,000. Architect, James R. Edmunds, Keyser Building, Baltimore, Md. Owner, John P. Baer, 16 Midvale road, Roland Park, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting, hardwood floors. Contract awarded to Frank Spillman, 15 East Fayette street, Baltimore, Md.

Residence, Meridale, Park, Baltimore, Md. \$4,500. Architect, private plans. Owner, Mrs. M. B. Clogg, Meridale Park, Baltimore, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to Spence Bros., Morrell Park, Baltimore, Md.

Duplex Cottages (2), Cedar avenue, Baltimore, Md. Architect, private plans. Owner, Duplex Cottage Co., Gunther Building, Baltimore, Md. Brick, 2 stories, 30x45 feet, slate roof, steam heating, electric lighting. Contract awarded to George R. Morris, Gunther Building, Baltimore, Md.

Residence, Guilford, Md. \$8,000. Architect, E. L. Palmer, Roland Park, Baltimore, Md. Owner, Evan W. Hook, 101 Cheapside, Baltimore, Md. Brick, 2½ stories, 28x35 feet, slate roof, steam heating, electric lighting, tile work. Contract awarded to Gustave Stohr, 2851 Pennsylvania avenue, Baltimore, Md.

Synagogue, 247-49 South Eden street, Baltimore, Md. \$5,500. Architect, Herbert J. Tinley, 312 North Charles street, Baltimore, Md. Owner, Bethel Israel Congregation, Baltimore, Md. Brick, 1 story, 27x80 feet, slag roof, steam heating, electric lighting. Contract awarded to Acme Building Co., Eighteenth street and Edmondson avenue, Baltimore, Md.

Factory (add.), 2409-11 Eastern avenue, Baltimore, Md. \$40,000. Architect, Layton F. Smith, 513 North Charles street, Baltimore, Md. Owners, Varsity Underwear Co., on premises. Brick and concrete, 4 stories, 60x84 feet, slag roof, steam heating, electric lighting. Concrete floors, metal lath, waterproofing. Contract awarded to Deverell, Spencer & Co., 1007 Garrett Building, Baltimore, Md.

Garage, 2002-04 Pennsylvania avenue, Baltimore, Md. \$2,500. Architect, private plans. Owner, John E. Merryman, on premises. Brick, 2 stories, 25x64 feet, slag roof, electric lighting, concrete floors. Contract awarded to G. Buck, care of owner.

Residence (alt. and add.), Roland Park, Md. \$2,500. Architect, W. M. Geiske, Gunther Building, Baltimore, Md. Owner, Robert H. Lyon, 220 Hawthorne road, Roland Park. Frame, 2½ stories, shingle roof, hot air heating, electric lighting. Contract awarded to Roland Park Co., Roland Park, Md.

Church (add.), Bond street and Lafayette avenue, Baltimore, Md. \$10,000. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, North Baltimore German M. E. Church, on premises. Brick, stone trimmings, 1 story, 16x72 feet, slate roof, steam heating, electric lighting, metal lath. Contract awarded to E. G. Turner, 15 East Fayette street, Baltimore, Md.

Hospital, Cumberland, Md. \$18,000. Owner, Western Maryland Hospital, Cumberland, Md. Brick, 3 stories, slate roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Contract awarded to Wright, Richardson & Co., Cumberland, Md.

Parsonage, Raspeburg, Md. \$6,000. Architect, Herbert J. Finley, St. Paul and Saratoga streets, Baltimore, Md. Owners, Gatch M. E. Church, Rev. Feltenbaum, Raspeburg, Md. Frame, 2½ stories, 20x60 feet, slate roof, steam heating, electric lighting. Contract awarded to Linn Bowman, Raspeburg, Md.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

Miscellaneous Construction News

Dormitory Buildings (2), Ithaca, N. Y. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owner, Cornell University, Ithaca, N. Y. Stone and steel, fireproof, 2½ stories, 65x150 feet and 30x170 feet, slate roofs, steam heating, electric lighting. Plans about completed. Architects will soon take bids.

Court House and City Hall, Wilmington, Del. \$1,000,000. Architects (associated), John D. Thompson, Jr., Ford Building, Wilmington, Del., and Palmer, Hornbostel & Jones, 63 William street, New York City. Owner, Wilmington and New Castle County Building Commission, Thomas F. Gormley, Secretary, Church Building, Wilmington, Del. Stone and steel, fireproof, 3 and 5 stories. Sealed proposals will be received until August 21st, at 11 A. M., on the following lines: Plumbing, heating and ventilating, electrical work, granite, marble, mason work and stone setting, sheet metal work and roofing, waterproofing and dampproofing. Plans can be ob-

tained from the Commissioners on and after August 13th, upon a deposit of \$50.

Service Building, Long Island City, N. Y. \$600,000. Architect, John Graham, Detroit, Mich. Owner, Ford Motor Co., Detroit, Mich. Concrete, steel and terra cotta, 8 stories, 200x266 feet, slag and tile roof, metal lath, enamel brick, metal sash and frames, waterproofing and dampproofing, composition floors (heating and lighting reserved). Architects taking bids due August 20th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Warehouse (alt. and add.), Fourth street and P. R. R., Wilmington, Del. \$5,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owners, Philips Thompson Co., Fourth and French streets, Wilmington, Del. Frame, 1½ stories, 40x84 feet, slag roof, electric lighting. Contract awarded to H. H. Luff, Martechanin, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

A. Smith (O), 318 North State street. J. N. Gill Co. (C), Heed Building. Cost, \$8,000. Building, brick, 1 story, 29x43 feet, 318 North State street.

Sedgwick-Frams Co. (O), 7014 Boyer street. A. S. Tourison. Cost, \$10,000. Residence, stone, 3 stories, 28x51 feet, 7014 Boyer street.

Frank Foster (O), 4637 Dittman street. Cost, \$2,400. Dwelling, brick, 2 stories, 16x56 feet, Brill and Jackson streets.

R. W. Peters (O), Eighth and Wingohocking streets. Cost, \$3,200. Store and dwelling, brick, 2 stories, 16x62 feet, Eighth and Cayuga streets. Cost, \$2,800. One store and dwelling. Cost, \$54,000. Twenty dwellings. Cost, \$54,000. Twenty dwellings.

J. T. Lewis & Bros. Co. (O), Lafayette Building. Unit Construction Co. (C), Stock Exchange Building. Cost, \$30,000. Manufacturing building, brick, 3 stories, 50x128 feet, Aramingo and Huntingdon streets.

Germantown Hospital (O), Penn and Chew streets. Fidelity Construction Co. (C), Heed Building. Cost, \$29,000. Hospital, brick, 1 story, 37 137 feet, Penn and Chew streets.

R. Wilde (C), 6850 Ridge avenue. C. M. Swartley (C), 6835 Ridge avenue. Cost, \$2,500. Dwelling, brick, 2 stories, 27x31 feet, Livezey lane and Ridge avenue.

Archbishop E. F. Prendegast (O), Eighteenth and Race streets; J. McShain (C), 631 North Seventeenth street. Cost, \$22,250. Rectory, brick, 3 stories, 36x62 feet. Cost, \$20,575. Convent, Allengheny avenue and Edgemont street.

A. L. Rudolph (O), 5221 Ridge avenue. Cost, \$6,000. Three dwellings. Brick, 2 stories, 16x42 feet. Ridge avenue and Harvey street.

G. W. Townsend (O), 1506 Green street. A. P. Fraim (C), 319 Market street. Cost, \$1,360. Apartment house, brick, 3 stories, 18x72 feet, 1506 Green street.

James MacBrine (O), 1607 Ellsworth street. Cost, \$2,500. One dwelling, brick, 2 stories, 16x41 feet. Cost, \$7,250. Five dwellings. Cost, \$7,250. Five dwellings. Cost, \$7,500. Three dwellings. Cost, \$5,000. Two dwellings. Cost, \$19,800. Eighteen dwellings. Cost, \$23,200. Sixteen dwellings. Cost, \$2,900. Two

dwellings, Twenty-seventh and Tasker streets. M. L. Shoemaker & Co. (O), Delaware avenue and Venango street. Cost, \$5,000. Abattoir, brick, 2 stories, 77x33 feet, Second and Moore streets.

Charles Gerecke (O), 7101 Torresdale avenue. Cost, \$3,900. Three dwellings, brick, 2 stories, 15x40 feet, Vandyke and Princeton streets.

J. M. Peters (O), 116 North Nineteenth street. S. Challender (O), Westmont, N. J. Cost, \$1,800. Dwellings, brick, 2 stories, 16x40 feet, Pratt and Griscom streets. Cost, \$16,900. Thirteen dwellings.

Frank Schillings (O), Northeast Boulevard. Cost, \$16,000. Eight dwellings. Brick, 2 stories, 15x36 feet, Palethorp and Loudon sts.

H. S. Helms (O), Hermit street. Keller Bros. (C), 480 Harmon street. Cost, \$5,100. Dwelling, stone, 2 stories, 26x17 feet, Hermit and Righter streets.

W. E. Strock (O), 7326 Second street pike. Cost, \$18,000. Twelve dwellings, brick, 2 stories, 16x37 feet, Sixth and Crothers streets.

Ed. Stott (O), 5430 Water street. Cost, \$17,800. Four dwellings, brick, 2 stories, 16x36 feet, Front and Tabor streets.

Solomon Bros. (O), 824 Snyder avenue. Cost, \$46,000. Twenty-three dwellings, brick, 2 stories, 14x25 feet. Cost, \$2,600. Store and dwellings, Second and Porter streets.

James Arthur (O), 3206 North Second st. Cost, \$19,000. Five store and dwellings, brick, 2 stories, 20x40 feet, Sixty-sixth street and Woodland avenue. Cost, \$15,000. Six dwellings. Cost, \$45,000. Eighteen dwellings. Cost, \$47,500. Nineteen dwellings. Cost, \$45,000. Eighteen dwellings. Cost, \$45,000. Eighteen dwellings. Cost, \$47,500. Nineteen dwellings.

Girard Seitter (O), 849 East Luzerne street. Cost, \$12,800. Eight dwellings, brick, 2 stories, 15x27 feet, Richmond and Venango streets.

James McGinty Co. (O), 2621 North Twenty-third street. Cost, \$3,000. One dwelling, brick, 2 stories, 15x46 feet, Boulevard and Lawrence streets. Cost, \$21,600. Eight dwellings. Cost, \$3,000. One dwelling. Cost, \$5,400. Two dwellings.

Alterations and Additions

W. Thompson (O), 2030 West Ontario street. Diamond Building Co. (C), 1811 Columbia avenue. Cost, \$2,000. Dwelling, 2030 West Ontario street.

J. G. Patton (O), Pennsylvania Building. F. D. Kramer Co. (C), 1606 Spring Garden street. Cost, \$1,500. Dining room, Pennsylvania Building.

Asbury M. E. Church (O), Thirty-third and Chestnut streets. Kriebel Bros (C), 826 Spring Garden street. Cost, \$3,085. Church, Thirty-third and Chestnut streets.

E. M. Harris (O), 50 North Twenty-third street. Ed. Cunningham (C), 50 North Twenty-third street. Cost, \$2,000. Warehouse, 135 North Twenty-second street.

F. T. Marr (O), 58 West Tulpehocken street. W. C. Wright (C), 22 Harvey street. Cost, \$2,500. Dwelling, 58 West Tulpehocken st.

W. C. McLean (O), Germantown. School Lane Land Co. (C), Germantown. Cost, \$1,800. Residence, Germantown.

E. M. Keichen (O), 4901 Knox street. J. Dear (C), 4544 Greene street. Cost, \$1,500. Store and dwelling, 4947 North Broad street.

Abe Schenker (O), Tenth and Dudley sts. Joseph Bobb (C), 1001 McKean street. Cost, \$1,200. Store and dwelling, Tenth and Dudley streets.

E. H. Butler (O), 1418 Walnut street. F. B. Davis (C), 240 North Sixteenth street. Cost, \$3,000. Residence, Chestnut Hill, Pa.

Walther Printing Co. (O), 250 Girard avenue. A. R. Raff (C), 1635 Thompson street. Cost, \$1,000. Shop, 250 Girard avenue.

Philadelphia Electric Co. (O), Tenth and Chestnut streets. H. U. Boureau Co. (C), 3302 Ludlow street. Cost, \$17,000. Power plant.

S. Stecher (O), 420 Market street. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$1,000. Store, 1222 Walnut street.

Thomas Riley (O), Fifty-eighth street and Girard avenue. J. F. Crowe (C), 3127 Belgrade street. Cost, \$3,700. Store and dwelling, 2652 Kensington avenue.

American Garage (O), 1411 Locust street. Ed. Fay & Son (C), 2 South Mole street. Cost, \$1,300. Garage, 1411 Locust street.

Estate of Stephen Girard (O), Lafayette Building. J. S. Cornell & Sons (C), Land Title Building. Cost, \$28,000. Twenty-third street and College avenue.

C. Abraham (O), 935 Ellsworth street. J. Juliano (C), 914 Reed street. Cost, \$2,300. Dwelling and store, 935 Ellsworth street.

Joseph Lupowitz (O), 429 Snyder avenue. Cost, \$5,000. Store and dwelling, 524 South Third street.

S. Wheeler (O), Fifty-second and Market streets. Cost, \$1,000. Theatre, Fifty-second and Market streets.

James McCaffrey (O), 4646 Frankford avenue. Cost, \$1,800. 4644 Frankford avenue.

Joseph Levine (O), 1022 South Fifth street. B. Bornstein (C), 412 South Fifth street. Cost, \$2,400. Dwelling, 513 Pine street.

H. Horan (O), 2104 Arch street. G. C. Dougherty (C), 1725 Ludlow street. Cost, \$1,000. Stable, 1635 Ranstead street.

School of Industrial Art (C), Broad and Pine streets. Boyle & Co. (C), 1519 Sansom street. Cost, \$2,000. School, Broad and Pine streets.

C. O. Kruger (O), Real Estate Trust Building. George Hogg (C), 1634 Sansom street. Cost, \$1,000. Office Building, Fifty-second and Ludlow streets.

Edw. Swift (O), Sprague and Dorset streets. Cost, \$3,200. Garage, Sprague and Dorset streets.

First Penny Savings Bank (O), Twenty-first and Bainbridge streets. J. Johnson (C), 1721 Ludlow street. Cost, \$7,000. Bank, Twenty-first and Bainbridge streets.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

**NOTICE TO CONTRACTORS.
NEW COUNTY BUILDING FOR
NEW CASTLE COUNTY
AND**

**NEW MUNICIPAL BUILDING FOR THE
CITY OF WILMINGTON.**

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission at the office of the Commissions, in the Church Building, at the corner of Market and Tenth streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time) on the 21st day of August, 1914, for the Plumbing Work, for the Mason Work, for the waterproofing, for the Floor and Roof Arches, for the Granite Work, for the Marble Work, for the Cut Stone Setting, for the Heating and Ventilating, for the Electric Wiring, for the Timbrel Vaulting, for the Sheet Metal and Roofing, for the Skylights, and for the Damp-proof Painting, entering into the construction and completion of the New County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King street and French street, and between Tenth street and Eleventh street, in the City of Wilmington, Delaware, and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings for each department or class of work above listed.

Each proposal for Plumbing shall be accompanied by a certified check or cash deposit in the amount of two thousand, five hundred (\$2,500) dollars.

Each proposal for Mason Work shall be accompanied by a certified check or cash deposit in the amount of two thousand, five hundred (\$2,500) dollars.

Each proposal for Waterproofing shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

Each proposal for Floor and Roof Arches shall be accompanied by a certified check or cash deposit in the amount of eight hundred (\$800) dollars.

Each proposal for Granite Work shall be accompanied by a certified check or cash deposit in the amount of three thousand (\$3,000) dollars.

Each proposal for Marble Work shall be accompanied by a certified check or cash deposit in the amount of two thousand five hundred (\$2,500) dollars.

Each proposal for Cut Stone Setting shall be accompanied by a certified check or cash deposit in the amount of one thousand five hundred (\$1,500) dollars.

Each proposal for heating and ventilating shall be accompanied by a certified check or cash deposit in the amount of two thousand five hundred (\$2,500) dollars.

Each proposal for Electric Wiring shall be accompanied by a certified check or cash deposit in the amount of two thousand (\$2,000) dollars.

Each proposal for Timbrel Vaulting shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

Each proposal for Sheet Metal and Roofing shall be accompanied by a certified check or cash deposit in the amount of three hundred (\$300) dollars.

Each proposal for Skylights shall be accompanied by a certified check or cash deposit in the amount of three hundred (\$300) dollars.

Each proposal for Damp-proof Painting shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

The Commission to reserve the right to reject any or all proposals received if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more guarantee or surety companies, aggregating in amount fifty (50) per cent. of the amount of the contract.

The several contracts provide that the work included in them shall be completed in calendar days from the date of notice to start work as follows:

Contract for and Contract Time.

Plumbing: Four hundred and sixty-two calendar days.

Mason Work: Three hundred and twenty-four (324) calendar days.

Waterproofing: Eighty-two (82) calendar days.

Floor and Roof Arches: One hundred and twenty-eight (128) calendar days.

Granite Work: Two hundred and fifty-nine (259) calendar days.

Marble Work: Two hundred and fifty-nine (259) calendar days.

Cut Stone Setting: Two hundred and ninety (290) calendar days.

Heating and Ventilating: Four hundred and sixty-two (462) calendar days.

Electric Wiring: Three hundred and seventy-one (371) calendar days.

Timbrel Vaulting: One hundred and fifty-nine (159) calendar days.

Sheet Metal and Roofing: One hundred and fifty-nine (159) calendar days.

Skylights: One hundred and fifty-nine (159) calendar days.

Damp-proofing Painting: Three hundred and five (305) calendar days.

On and after August 13th the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission, in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the Commissions, and upon the payment of a deposit of fifty (50) dollars; this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before September 1st, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

THOS. F. GORMLEY,
Secretary of the New Castle County Building Commission and of the Wilmington Building Commission.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 3, 1914.—Sealed proposals will be opened in this office at 3 P. M., September 14, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of the United States post office at Port Jervis, N. Y. One story, mezzanine and basement building; ground area, 4,800 square feet; first floor fireproof; stone and brick facing with ornamental terra cotta cornice, etc.; tin composition roof. Drawings and specifications may be obtained from the custodian of site at Port Jervis, N. Y., or at this office in the discretion of the supervising architect. O Wenderoth, Supervising Architect.

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Editorial Comment

A committee appointed by the Carpenter-Contractors' Association, of Chicago, to formulate and recommend certain changes in building specifications, has filed its report. This report, representing the carpenters' side on points often in controversy, should be of interest to architects here as well as in the Windy City. The Chicago Association has mailed its report to every Chicago architect, asking that the issues raised be given consideration. Here are the items which, in the opinion of the carpenters, call for adjustment:

No. 1. Broken glass is specified to be paid pro-rata by the carpenter. Should be eliminated.

No. 2. The patching of plaster by carpenter should be eliminated.

No. 3. The protection of cut stone shall be specified so that the responsibility of the carpenter contractor ceases after covering same, and anyone removing covering be held liable for the damage thereto.

No. 4. If carpenter is required to furnish watchman, specify time services of said watchman are required.

No. 5. The delivery of hardware and responsibility of same shall be limited to the delivery of boxes and cases, but no responsibility is to be assumed by the carpenter for contents thereof.

No. 6. Priming of frames should be eliminated from carpenter's specifications as factories refuse to prime frames.

No. 7. Lumber for bracing of iron will not be furnished by carpenter.

No. 8. Carpenter will not clean the rubbish of other contractors.

No. 9. Setting of iron should be eliminated from carpenter's specifications.

No. 10. The carpenter contractor will not furnish any labor or material for work that is required and not specified or shown on plans, but necessary to complete the job.

No. 11. The carpenter shall not be held liable for any damage to finished floor by other trades.

No. 12. Carpenter will not be responsible more than 30 days after completion of building for fitting of doors, locks, or windows, caused by the settling of walls or joists and swelling or shrinkage of woodwork.

* * *

Among the many excellent addresses delivered at the recent convention of the Building Managers at Duluth, the most notable was an address on "The Building of American Cities," by Allen D. Albert, associate publisher of the Minneapolis "Tribune." Said Mr. Albert, in part:

"One of the studies to which the economist of to-day is giving special attention is the analysis of this and other movements, as they relate themselves to the upbuilding of community life. No city is an accident. Think of it! No city grows by chance. On

the contrary, though the laws which govern the location and the upbuilding of cities cannot yet be definitely stated, they are yet so reasonably clear in the large as to have definite value and clear interest for you and me.

"At the outset in this hurried inquiry into the forces that build cities we would do well to warn ourselves that economic and sociological forces are never independent. No man in this room, in fact, ever did any single thing in the whole range of his experience from a single impulse. Every act of our lives is the result of combined forces. So in cities no one of the laws, which shortly I shall undertake to state, operate alone. On the contrary, they are like the strands of a cable, winding about each other, pulling together, now appearing, now disappearing. If you will be good enough to bear that in mind we may save each other some mistake of overestimating or misconceiving these several laws.

"And what are the laws? What determined the location of a city here? What controlled that public patronage which gave potential office building value to the site of nearest business concern to each one of you?

"It is extraordinary, I think, that nearly every city has its beginning as a place of refuge. Isn't that strange?

"Consider for a moment. All that we know of Troy, generally speaking, is the height of its wall and the valor poured forth to defend it. Rome has three names, Greek, Latin and modern Italian. Each of those three names is a synonym for strength. Our American cities, in a new country presenting the evolution of economic law in rather unusual clearness, have in larger number than you would ever accept been first places of refuge. I cite Pittsburgh and Fort Pitt, Montreal (Mount Royal), Quebec and its citadel, Minneapolis and Fort Snelling, Bismarck and Fort Lincoln—one might go over the entire map, surprised how few American cities have had their origin in anything save the need of a haven.

"Shortly, to each haven come troops. Troops must be supplied. Market places spring up. Walls are widened. People pour into them in time of stress or danger for protection, and stay until the city grows and grows by the operation of other laws.

* * *

"Now, the establishment of a place of exchange in a city is the accepted solution of both the location and the development of cities. That it plays a large part none of us can deny. But you will be interested, I think, to know that in his study of the growth of cities the economist is able to find only one in the world which exists primarily as a place of bargain. That single exception bears the rather forbidding name of Nijni Novgo-

rod—the place of the Russian fair. That it is an abnormality is manifest from the fact that though in population it sometimes reaches the total of 150,000, its stable population is about 30,000. Otherwise there is not, in our search of the history of cities, in the world, a single illustration of that city which has been brought into existence by barter, as a bargain counter, and has depended exclusively upon barter.

“There has been a larger increase in the numbers of cities in the past two hundred years than in all the story of civilization besides. Truly there is some special explanation for this. What is it that takes us back to 1725 with an abrupt stop beyond which cities grow very slowly, and rural districts seem to keep their own and more? What is it?”

“It is the invention of the condensing steam engine. And yet it is not in the sense that steam power was introduced into the industry of cities generally that this has interest, but in the more explicit fact that it made possible what is called ‘Pattern’ production. So, be the transportation of supplies by water, or by rail, or by team, the use of steam has industrial and economic value mainly for the fact that it makes possible the reproduction of a thing according to pattern millions of times. This quality of pattern production it is that has given a new general character to the cities of the world, multiplied their problems, and multiplied their population beyond all the city growths of earlier days.

* * *

“And yet this is not all. The city is also the place of collecting and distributing supplies. It would be difficult to justify the city of New Orleans as a place of bargain counter exchange. But it is easy to understand that New Orleans was inevitable as a city when you reflect that now there pours into New Orleans from the States near by sugar, live stock and cotton, and there come to New Orleans from the sea, with greater commercial convenience and profit than to any other city in that section, the fruit products of the Caribbean.

“Nor is this all. Underneath all these existing and controlling factors in the location and upbuilding of cities is the factor of transportation. Rome was an inevitable city; because if you will study a relief map of the Valley of the Tiber you will find that all the wagon roads by natural operation converge at a particular place, and the economist of to-day, were he confronted with a parallel, would say, instinctively, ‘There, some day, must be a city.’

“Bangor is a harbor. Boston is a harbor. Fall River is a harbor. Newport is a harbor. Providence is a harbor. New York City is a harbor. Baltimore and Philadelphia are harbors. Washington is an artificial city. Richmond is at the head of navigation, a harbor. Charlestown is a harbor. Down the coast you go as though with a key in your hand, inserting it into the lock that admits the ship to shelter, and there you find the city growing. In new countries this is inevitable,

and in new sections of the United States it is still easy to follow.

“Now when the land is unlocked to the sea and the sea is unlocked to the land, and steam transforms transportation, these problems seem to multiply. At another meeting of this association I developed a thought quite incidentally, which prompted a considerable degree of questioning later. I took it as an accepted thing, and I think it warrants acceptance. Here it is:

“That always great cities grow up first not nearer than a night’s journey from each other. Citing a particular illustration of that law, consider the Pacific coast. Vancouver is a night’s journey by water from Seattle; Seattle is a night’s journey by rail from Portland; Portland is a night’s journey from San Francisco; San Francisco is a night’s journey from Los Angeles. The relation of these cities to each other, and the circumscription of their zone of probable growth were predetermined.

* * *

“It might go on, but it is more profitable for us to discuss the relationship of cities which seem to defy the law. What about Baltimore, Wilmington, Philadelphia, Trenton and New York? They are very much nearer to each other than a night’s journey. Are they?

“What is it that makes this measure almost arbitrary? This: that the purchaser, if he please, can leave his home to visit any city near at hand, reach the city, do his shopping and return in a single day. That simple fact establishes the conditions in a great nation like the United States which first govern the populating of cities.

“Considering now all these relationships, as they are decipherable and discoverable in the rough, we have still to consider the most important of them all. Rome founded a bureaucratic branch in the city of Bologna. Rome was the mistress of the world. She was an institution, not a settlement. She typified and embodied the organized strength of the world. Bologna was an agency, an outlying center of bureaucratic administration, that is all. But in Bologna there were two or three institutions distinctive of this little town, a school of art, a great university. And when in 226 Rome fell apart of her own weight, and her power was divided amongst three cities—Rome, Constantinople and Alexandria—Bologna continued to thrive with rather a surprising independence of the mother city. Why? Because the appeal of the distinctive institutions of Bologna was not dependent upon military or political strength.”

* * *

Two points stand out in Mr. Albert’s well considered and studious review. One is that cities almost invariably had their beginnings as places of refuge, that their growth is the natural outcome of advantages in location planned rather than accidental, and that their continued greatness rests upon artistic and sociological rather than upon merely commercial considerations. In other words, cities become great because of distinctive institu-

tions and not because of political or commercial advantages only. Mr. Albert tells a story of a powerful industrial organization which was in quest of a site for a tremendous plant and manufacturing community. Cities bidding for the new industry were eager to recite their natural advantages—location, nearness to the sea, accessibility to market, etc. What the site-seekers wanted to know, it developed, was quite apart from that which they were told. They wanted to know what playground advantages each city had to offer, the extent of their parks and recreation centers, what library and school facilities they had to offer, how much clean amusement was within reach of its working classes.

All this is highly significant. It is encouraging. It shows a deeper and truer conception of the obligation which rests upon the employer to surround the men who work with clean and wholesome living conditions. It shows that a city’s greatness rests upon other things than the ability to hoard up money and the natural and acquired advantages issuing out of that condition.

ARE YOU GOING UP OR GOING DOWN?

There is no such thing as standing still. We are either going up the ladder or going down. In which class are you? The man who has not the courage to ask himself this question and to seek a correct answer is on dangerous ground. It is better to know the truth, even though it is against you, than to remain in a rut until it is too late to get out. It is not necessary to be a genius to be going the right way of the road. Patience, diligence, perseverance, regularity and economy of time will always win. These are qualities which all can possess, and the acquiring of them is a small price to pay for success.—Exchange.

An advertisement should stick out like a sore thumb without being so sensitive.—“Novelty News.”



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BUILDING A CHINESE HOUSE.

When a Chinaman would build a house he consults a wizard instead of an architect. He decides the spot for the front door—for that must face exactly in the right direction; never toward the south, unless it is the house of an emperor or high official.

The wizard also determines the exact size of the door, for an inch out of the way might prove fatal. There must be a screen three yards in front of the door to keep out the evil breath—not human breath, made by tobacco or liquor, nor malarial vapors, but some mysterious and fatal something that no one knows.

Then the wizard locates the spot for the kitchen and he settles the time to begin digging, for if the earth god should be at home the workman might thrust the spade through his skull and the family would all die.

The question must also be settled whether this is the right year to build. There are lucky years and there are unlucky years. For instance, a man must not marry in any year beginning with an even number. Having picked out a lucky year, the next thing is to hit upon the lucky month of the year and then the lucky day in the month. Lucky days are yellow and unlucky days are black. There are more black days than yellow ones, so the case of the Chinese builder is not all pleasure and ease.

The One That Gets the Trade.

The constant dropping water wears away the hardest stone,
The constant chewing bulldog masticates the toughest bone,
The constant cooing lover takes away the blushing maid,
And the constant advertiser is the one that takes the trade.

ATTITUDE OF PUBLIC TOWARD THE ARCHITECT

By WILFRID BEACH, in the "Architectural Record."

The architectural profession is composed of four rather distinct types of practitioners.

First, the experienced ethical man.

Second, the novice of proper education and training, lacking only experience.

Third, the "architect."

Fourth, the shyster.

We will arbitrarily allude to the first only as architect, calling the others for convenience by their more descriptive titles.

It does not appear difficult on the face of the matter for the public to discriminate between the different types, if it would; but there is just the trouble: it won't.

A prospective builder seeking his first experience does not, oftentimes, appear to care who makes his drawings, just so he obtains them cheaply.

Having no particular respect for the building he is about to erect, he has even less for the architect who appears to be a necessary evil in the affair. The architect himself, if he be of the first class, is probably not lacking in self-esteem and is far from relishing the patronizing attitude of the prospective client. He neither kotows nor cringes; and the man with money to spend is too likely to resent what he considers "high and mightiness" in one who is only a servant after all.

And, if the client be a woman with a house to build, the kind of woman who has already made her own plans and only needs an architect "to kind o' put on the finishing touches." ("You know, if I were a man, I should just love to be an architect, it's such nice, clean work. And everybody says I'm so artistic. You know I've studied china painting. I'm sure I could succeed at this without half trying. Of course, these are only rough sketches and my husband says they are not to scale, whatever that is. But I planned a real model house once for our settlement work club and all the other ladies thought, etc., etc.") If she be that kind of a woman, she will be very easily offended by any lack of tact on the part of the architect.

You can hear her a year or so later saying: "I know the house isn't just what it should be, although I had it all worked out exactly as we wanted it; but the architect just simply spoiled it; and I had it designed so artistically, too."

"I always wondered why you didn't go to Mr. Blank. He has built some beautiful homes out on the Drive."

"Well, I did go to see him first. But he was so horrid and dictatorial, I simply couldn't stand him. I just felt like a little child when he talked to me. He said he wouldn't do this and I couldn't have that, and anyway it would cost a lot more than we had figured on. I just made up my mind I wouldn't have any house at all if I had to

have him plan it. So I went to Mr. Brown. I know he is only a carpenter, really, but he could at least do as he was told, though he deceived me dreadfully about the cost."

"Oh, they all do that. It's proverbial that you never can depend on an architect's estimates, you know."

"Of course, you can't. We found that out to our sorrow. But we feel worse about the outside. We only told Mr. Brown what we wanted in a general way and gave him a kodak of the Smith house to follow and he simply butchered it."

"Yes. I know the Smith house. Mr. Blank planned that, didn't he? But I didn't suppose yours was modeled after it."

"Of course, you'd never suspect it. The next time we build, we're going to send away for plans for one of those perfectly charming bungalows you see so many pictures of in the magazines nowadays; one with a 'patcho' in the center, real Spanish you know, like the Grays have down in Florida."

It is thus greatly to be feared that the dignity of the real architect does not command the respect of the uninformed and careless public.

The building supply trade constitutes a considerable factor of that public which architects desire to see enlightened. The attitude of these people toward the architect is of great importance because of its reflexive influence. If a large portion of the material men of the country believe that architects in general are "looking for something on the side," they probably believe also that those who will not accept it are either supremely foolish or are getting it elsewhere. This opinion of architects is easily passed on into too credulous ears. We know that there still exists in the business world a large number of financially successful men who believe that "every man has his price." Perhaps they also know that if it were less true, they themselves would not have arrived. Such men will not hesitate to impute improper motives to the most upright character, and it would be an exceptional reputation that would be absolutely impregnable to such slander.

Thus we have heard that this architect owns stock in factories from which he insists upon contractors making purchases of material for use in his buildings; another is said to furnish a very limited number of blue prints to contractors and charge many times the value of others that are found necessary; or we are told that still another habitually favors certain manufacturers who have done much for him—their competitors cannot even get a hearing with him. And the traducer will add, "But I don't really blame the architect. I'd get all I could in his place, and so



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Proposed Building for The First Presbyterian Church, Lansdowne, Pa.

would you. See how the owner cuts him down when he gives him a job—makes him take the work for almost nothing.”

In such manner is the whole profession besmirched by the remissness of the quacks and those who profit by their machinations. The evils are plainly the direct fault of the public, because the public does not attempt to discriminate between the ethical architect and the charlatan. It would appear that it really prefers to be humbugged.

We find this indifference sometimes so marked as to be well nigh inconceivable.

The common council of a small city met to select an architect for their proposed city hall. They had taken no trouble to advertise the matter and had only six candidates, one of whom, a member of the Institute, happened to be in the town on other business. Hearing of the work to be assigned, he called upon the mayor, who assured him that, there being no local practitioner, all comers would be treated alike. At the solicitation of the architect, the mayor requested the city attorney to wire certain parties for information as to the professional standing of this particular candidate. Nine such telegrams were sent (at the expense of the architect). The town council met in the evening and listened to each applicant in turn, asking but few questions, and these briefly touching upon the fee to be charged. When the stranger appeared before them without pictures or other paraphernalia of his “trade” he found himself at a considerable disadvantage. He requested the attorney to read the answers to the telegrams, which were accordingly pro-

duced, but, before they could be read, the mayor interposed, saying: “Never mind the telegrams. We are quite willing to assume that you are all right. What we would like is for you to show us what kind of a city hall you could build for us.”

The telegrams remained unread and the work was given to the lowest bidder, an “architect” who boasted that he had been a “practical man” until he was forty years old, and then took up architecture because he knew building so much better than these fancy fellows” who had never in their lives worked at a bench. His charge was two hundred and fifty dollars (one per cent.) for full services.

Owners continue to employ these shysters, even when they know them to be such, but thinking to take advantage of their low rates and deeming themselves clever enough, forsooth, to beat them at their own game. Fatuous fallacy! Such owners only connive at the evils and help them along.

The business section of a small town burned. The business men got together and agreed to build their new stores much better, even going so far in the right direction as to adopt a building code with certain fire preventive restrictions. Then some one suggested that, having gotten together, they might save considerable money by agreeing to employ an architect jointly and getting a combination rate. A man was found who had “ARCHITECT” printed on his stationery and who was willing to sell them plans and specifications for twenty-five dollars per building. The offer was accepted, in spite of

the protest of a real architect, who attempted to show them that buildings could not be properly designed that way.

Strange as it may seem, although they wanted fairly good buildings, as was evidenced by their previous action, yet they all went into the deal.

Their “plans” came by express, C. O. D. The buildings were started under hastily prepared contracts. The contractors never told that they were able to do about as they pleased from start to finish, that the details did not fit the plans nor the plans fit the elevations, and that the sub-contractors furnished their own drawings and could also do as they pleased. The owners had saved a lot of money (they supposed) by refraining from employing an “expensive” architect and by not wasting good cash in having a useless superintendent on the work. It would have been hard to convince them that they spent their savings several times over in paying for things they didn’t get.

The real extravagance was in not employing an “expensive” architect and paying him to supervise as well as design the work.

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MEANING OF ARCHITECTURE

Constructuralism is Fountain Source of All Design, Says English Authority.

The mere repetition of necessary, elemental and constructional units of a building is not devoid of interest. The fount and origin of architectural expression is constructionalism, says "The Building News," of London.

Pdatitude as this may be, its enunciation is justifiable, for very little observation will convince us that architecture is too often regarded as mere overlay—something tacked on to, instead of, the actual building itself. Not entirely or always, perhaps, in the better examples of present-day domestic architecture, which perforce, perhaps from motives of economy, is more or less good as far as it seeks to obtain the greatest value from that which we might term "auto-detail."

Recently we visited a small house, praised by many as something very good in its way. The first thing that we noticed was the nature of the hip-tiling. In places of small tiles lining-in with the plain-surface tiling, were practically half-round drainpipes, flush and harsh, and sleek as cast-iron guttering. The arrangement was bad.

By all means let there be simple and severe geometrical lines in the mass outline, but let these be softened; present but not obtrusive; not necessarily even, obvious. A hip in winding, broken-backed, of the traditional dog's-hind-leg order, we do not want; nor do we look for the pleasingly broken lines becoming to a building after long years of storm and stress. In building de novo we want true, straight lines. The distinction between the lines that we do require, and the harshness of a straight-edge, is a vital matter to the designer.

The existence of true, square, and "plumb" lines is obviously of the essence of architectural effect; therefore, some might be inclined to say that the perpetrators of the mathematically smooth and straight hip-tiling is no wise erred. The distinction, as we have suggested, is one of harshness v. gentle firmness.

An autocrat planning a railway over hill, dale, and river, with relentless pencil-point and ruler, may yet do so in a gentle, courteous manner; and if we may define gentleness in its application to design, this often may mean firm repetition of units in place of the accomplishment of a whole by one crushing blow. The ultimate work done is nominally the same; but, in the one case, we may

have success, in the other, as a rule, certain failure. A hip-line consisting of a number of small parts gives a softened, a totally different, effect to the harsh lines of flush, sockless drain-pipes. The fundamental bass-line, which is made out by the mean position of the several tiles, may—should—be as hard and mathematically correct as the draughtsman's straight-edge. It is rule unobtrusive—the rigid, law-given, fundamental, geometrical basis, softened by the variation in disposition of units to the completed whole.

There is possibly nothing so offensive to the true architect as badly-executed brickwork, or the lines of building masses, where decay and want of true foundation have brought about all the horror of form and line characteristic of ignoble ruin. On the other hand, nothing is so pleasing as true, solid brickwork. A cottage we have passed almost daily for twenty years and more is of some antiquity—"Georgian," possibly, if we must name a style and era; but, quite apart from its mellow and age-tinted walls, their squareness, absolute truth of line, and rigid plumbness, after so many years, still keep this humble laborer's dwelling a thing of beauty.

It is the repetition of necessary, constructional, elemental parts—such as bricks and tiles—that gives us what we have styled "auto-detail"—an effect of enrichment attending upon simple disposition of elemental, constructional parts. To the sensitive eye, a well-executed brick wall of pleasing color is a thing of widely varied interest.

We may ignore the actual kind and form of repeated ornament, since, basically, the mere repetition at regular intervals is pleasing to the eyes, and seems interconnected with the sense of order, which is at the root of what we call design. We may, too, oversail a few brick courses, and although enrichment is wanting, the elements of effect, of virtual cornice, are given. These considerations must even appeal to the domestic architect with little to expend upon homely building. If repetition at equal intervals is alone pleasing to the eye, we lost a chance of obtaining a true species of ornament each time we make a bar-iron hard hip in place of softening the geometric base by numerous parts, obviously the most frank interpretation of constructional necessity.

A line, the geometer will say, is the sum of infinitesimal points. In architecture it seems well to exhibit plainly the points that go to make up a line—the string of pearls, as opposed to the string itself. Arrow-lines, as fine and true as sun's rays, are of all objects beautiful, inducing the belief that, since Hogarth's time, we have been under an obsession. In architecture, and other concrete objects, the transcendent beauty of straight lines is a thing we do not appreciate, because they have been familiar to our eyes since they were first opened. But a dentil course is a thing of superior interest (not necessarily of superior beauty) to the plain mould; hence, a homely brick-on-edge coping is something vastly superior, in ultimate effect, to the same harshly covered with jointless stucco. Such we have termed "auto-detail." It is inherent in the material, its wise and sympathetic application, the result of homely use and disposition of homely material, the difference between the act, as such, and the manner in which it is performed.

The art of the architect with a client not overburdened with the ways and means of evolving architecture, is therefore the due seizing of opportunities for securing—automatically, so to say—an effect of detail, using this term to indicate a variety of parts, not themselves necessarily elaborate—the engendering, from simple means, by simple methods, of an effect of enrichment—of eye-interest, at least. It is a little more than "reduced" brickwork, plus the cost of facings, that will produce an effective dentil course, alternating plain brick and projection from the main walling. We cannot refrain from suggesting that the art of evolving and correctly using that which we have regarded as enrichment—an eye pleasing effect, germane to, and arising from, natural application of homely building material, is of a high order. We can all put plain-tile arches, and brick-on-edge sills, once we have been shown how the thing is done.

Architecture is essentially something built constructed, put together; and the act of such putting together, and not overlay and redundancy, offers the opportunity for the purest and truest architectural effect. True character and expression are achieved by the right and graceful disposition of organic parts, and the correct and natural use of material, as laid in position—brick on brick, tile and tile superimposed. The putting together of the component elemental constructional parts is the act of building. Architecture is the mode or manner in which these acts are performed.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

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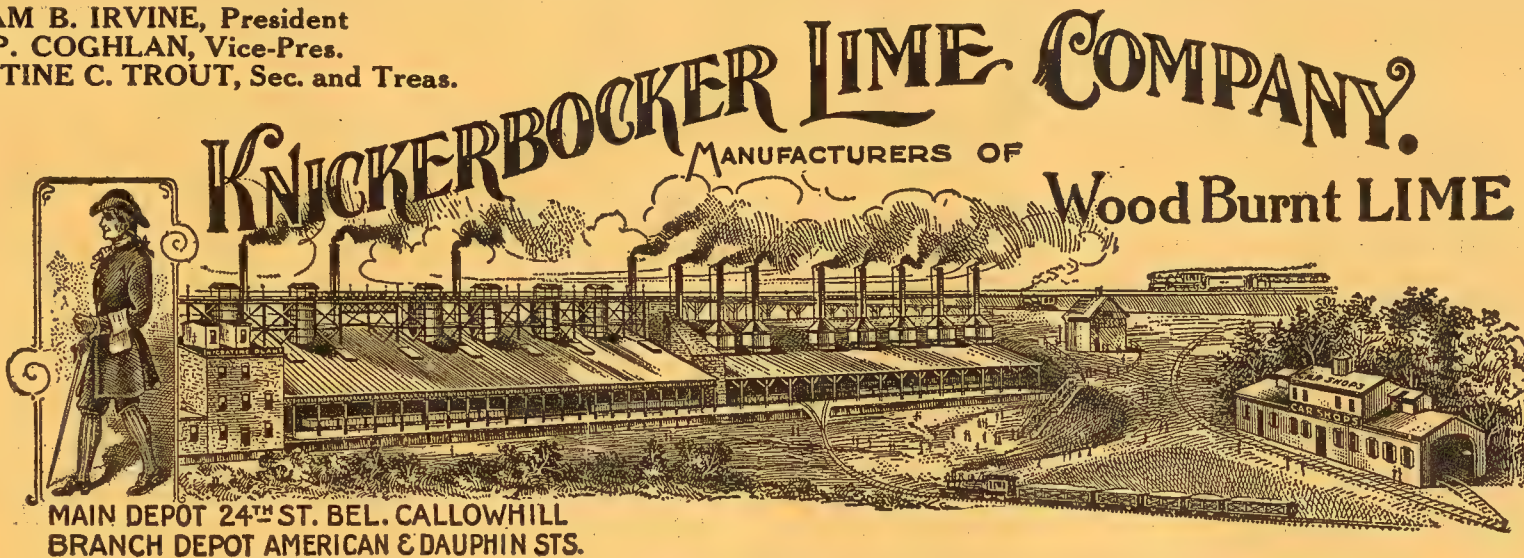
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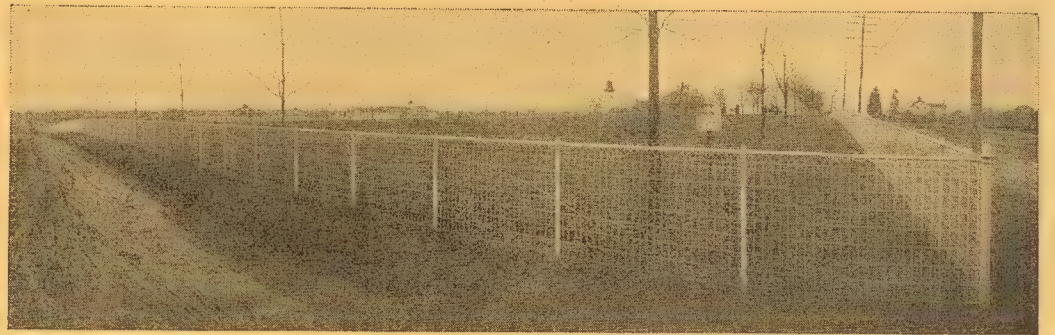
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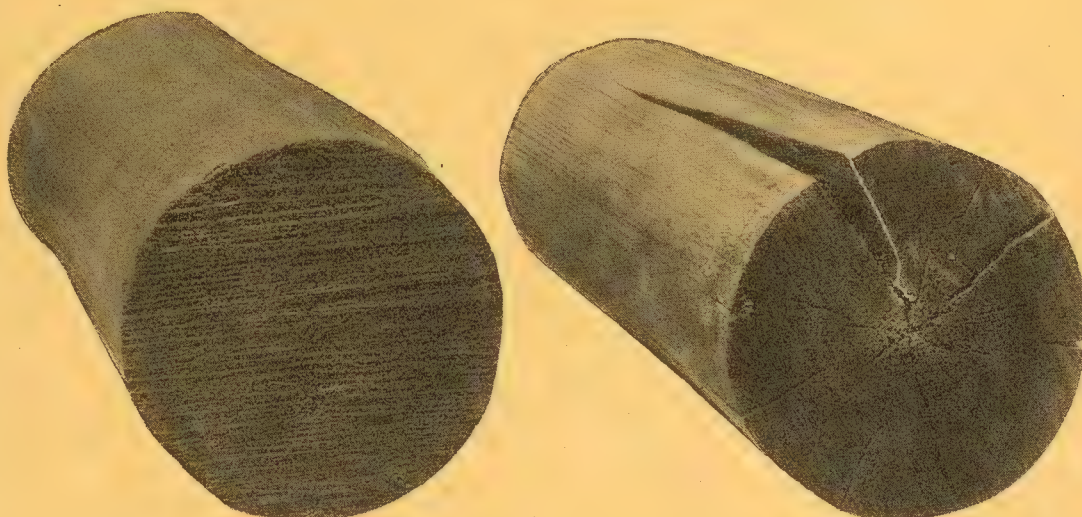
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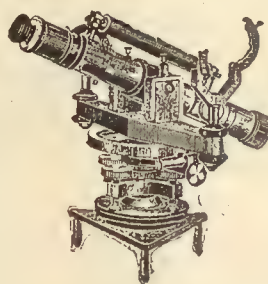
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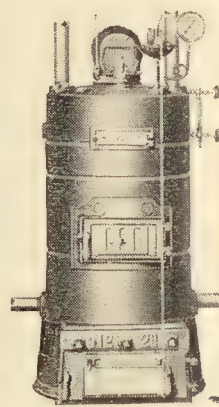


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Vol. XXIX., No. 33.

PHILADELPHIA, WEDNESDAY, AUGUST 19, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alt. and add.), 3220 Diamond street, Philadelphia, \$1,000. Architect, private plans. Owner, Lewis Sickles, on premises. Brick, 3 stories, interior alterations and repairs. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Store and Residence, Broad and Tasker sts., Philadelphia. Architect, Harry Raech, 820 Drexel Building, Philadelphia. Owner, John C. Kimmerle, on premises. Brick, 3 stories, 150 feet, slag roof, metal tile roof, metal lath (heating and lighting reserved). Revised plans in progress.

Saloon (alt. and add.), 1727 Susquehanna avenue, Philadelphia. Architect, private plans. Owner, P. J. Duffy, on premises. Consists of interior alteration and addition, slag roof, electric lighting. Owner has received bids.

Factory, Cottman and Tacony streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Keystone Lantern Co., 5033 Portico street, Philadelphia. Brick, 4 stories, 113x68 feet, slag roof, metal lath, steel frames and sash (heating, electric work and elevator reserved), proposal bond. Architect has received bids.

Club House (add.), 422 South Fifteenth st., Philadelphia. Architect, C. Henry Wilson, 1130 Lombard street, Philadelphia. Owner, Citizens' Republican Club, care of Amos Scott, President, southeast corner Twelfth and Pine streets, Philadelphia. Brick, 3 stories, 20x48 feet, tin roof, steam heating, electric lighting, hardwood floors, tile work, stained glass. Owner taking bids.

Dye House (add.), Womrath st. and Torresdale ave., Phila. Architect, private plans. Owner, Jos. Schmidt, care of C. E. Outerson, 4509 Frankford ave. Brick, 2 stories, slag roof. Owner taking bids due August 19th. H. E. Baton, Twelfth and Sansom streets; T. C. Trafford, 1613 Sansom street; Barnes Bros., 2055 East Allegheny avenue, and George Gray, 4330 Factory street, Frankford, all of Philadelphia, are figuring.

Saloon (alt. and add.), Fifty-fifth and Market streets, Philadelphia. Architects, Guy King Co., 1513 Walnut street, Philadelphia. Owner, E. A. Cush, on premises. Brick, 3 stories, electric lighting, tile floors; consists

of interior alteration and addition. Architect taking bids due August 21st. A. Whitehead, Inc., 1624 Latimer street; Herman Voigt, 1251 North Twenty-eighth street; F. I. Wintz, 1618 North Twenty-seventh street, all of Philadelphia, are figuring.

Parcel Post Office, Twenty-second and Market streets, Philadelphia. Architects, William Steele & Sons Co., 1600 Arch street, Philadelphia. Owner, E. M. Harris, 50 North Twenty-third street, Philadelphia. Lessee, United States Government, Post Office Department, Washington, D. C. Brick, steel and concrete, 8 stories, 150x225 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, metal frames and sash, safety treads. Plans in progress.

Garage, Willow Grove and Germantown avenues, Philadelphia. Architect, S. A. Stoneback, 2301 North College avenue, Philadelphia. Owners, Mrs. A. R. Snyder, 7942 Germantown avenue, Philadelphia. Stone, 2 stories, 76x84 feet, slag roof, hot water heating, electric lighting, dampproofing, metal lath. Revised plans in progress.

Residence (alt. and add.), 4002 Chestnut street, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owner, Dr. J. D. Brittingham, 4010 Chestnut street, Philadelphia. Stone, 3 stories, 22x65 feet, slag roof, electric lighting. Architects have received bids.

Store and Residence (alt. and add.), 1219-21-23 North Fifty-second street, Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, Schwarzman Bros., 1225 North Fifty-second street, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, electric lighting. Revised plans in progress.

High School for Girls, Broad street and Snyder avenue, Philadelphia. Architect, J. Horace Cook, Land Title Bldg., Phila. Owner, Board of Education, City Hall, Philadelphia. Stone, steel and concrete, 4 stories, 212x226 ft., slate and slag roof, enamel brick, metal lath, metal sash and frames, waterproofing, dampproofing (steam heating and electric lighting separate bids), proposal bond. Lowest bid submitted by Cramp & Co., Denckla Building, Philadelphia, \$518,518.

School (alt. and add.), (lunch room), Thirteenth and Spring Garden streets, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Stone, 4 stories, metal lath, steam heating, electric lighting. Lowest bid submitted by E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, \$3,166.

Mill Building (add.), 2415 to 37 North Howard street, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Thomas L. Leedom Estate, on premises. Brick, 4 stories, 34x45 feet, slag roof, metal sash and frames (heating and lighting reserved). Architect taking bids, due August 24th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; F. A. Havens Co., 845 North Nineteenth street; R. C. Ballinger Co., 218 North Thirteenth street; Harrison C. Rea Co., 1027 Wood street; Barclay White Co., Perry Building, and Pomeroy Construction Co., 1609 Ranstead street.

Church, Sixth and Erie avenue, Philadelphia, \$25,000. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owner, Italian R. C. Church, Rev. Paul Gentile, 726 Erie avenue, Philadelphia. Stone, 1 story, 50x98 feet, slate roof, steam heating, electric lighting. Owner taking bids. The following are figuring: Joseph Bird Co., 213 North Eleventh street; J. McKenna & Son, 1032 Race street; Harry Brocklehurst, 512 West Norris street; McCloskey-Bahls, Hale Building; Frank Lucci, 1345 Christian street; W. Beaumont, Stephen Girard Building.

Fire Stations (alt. and add.), various locations, Philadelphia. Architect, Edw. A. Crane, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall. Brick, 2 and 3 stories, slate roof, steam heating, electric lighting. Lowest bids submitted by F. Roe Searing, Perry Building, Philadelphia. On station 1328 Race street, \$8,180; on station Fourth and Girard avenue, \$2,300.

Bakery and Laundry Building (alt. and add.), Holmesburg, Philadelphia. Architect, Edward Crane, City Hall, Philadelphia. Own-

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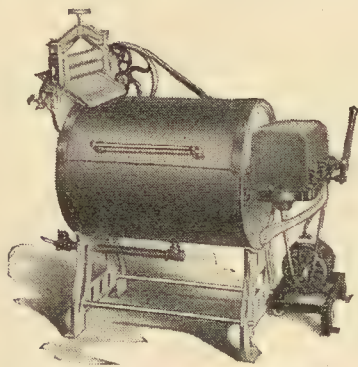
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er, City of Philadelphia, City Hall, Philadelphia. Stone, 1 story, slag roof, consists of interior alterations and repairs. Lowest bid submitted by F. A. Havens Co., 845 North Nineteenth street, Philadelphia, \$9,721. Carpenter Shop (alt.), Holmesburg, Phila-

delphia. Architect, Edw. A. Crane, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall. Stone, 1 story, slag roof, electric lighting. Lowest bid submitted by F. Roe Searing, Perry Building, Philadelphia, \$1,730.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory and Store (alt.), southeast corner Thirteenth and Cherry sts., Phila. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owner, Albert Levy, 925 Chestnut street, Philadelphia. Brick, 5 stories (heating, electric work and elevator reserved). Contract awarded to Frank Lucci, 1345 Christian street, Philadelphia.

Store (alt.), 17 and 19 North Thirteenth st., Philadelphia. Architect, Chas. E. Oelschlager, Harrison Building, Philadelphia. Owner, J. M. Koshland, 24 South Fifteenth street, Philadelphia. Brick, 3 stories; consists of new bulk windows and interior alterations and electric lighting. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

Garage, Oak Lane, Pa., \$1,800. Architect, private plans. Owner, W. D. Haddock, care of John Wanamaker, Philadelphia. Frame, 1 story, 20x29 feet, shingle roof, electric lighting (heating reserved). Contract awarded to William J. Gruhler, 219 High street, Germantown.

Boiler House and Garage, Fifth and Wilder streets, Philadelphia, \$15,000. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mt. Sinai Hospital, on premises. Brick and concrete, 2 stories, 40x40 feet, composition roof, electric lighting, metal lath, waterproofing, metal sash and frames, safety treads, gasoline storage. Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia.

Club House (alt. and add.), 1312-14-16 North Broad street, Philadelphia, \$145,000. Architect, Carl P. Berger, South Penn Square, Philadelphia. Owner, Loyal Order of Moose, No. 54, on premises. Brick and terra cotta, fireproof, 4 stories, 74x190 feet, slag and tin roof, steam heating, electric lighting, composition floors, metal lath, dampproofing. Contract awarded to A. Raymond Raff, 1635 Thompson street, Philadelphia.

Hall (alt. and add.), 808 Locust street, Philadelphia, \$2,500. Architect, Clarence Gardner, 925 Chestnut street, Philadelphia. Owner, Musical Fund Hall, 808 Locust street, Philadelphia. Brick and concrete, 3 stories, steam heating, electric lighting, metal lath, waterproofing, metal ceilings, metal sash and frames. Contract awarded to Charles H. S. Zebley, 340 South Quince street, Philadelphia.

Church, Parish House and Rectory, Tenth and Rockland streets, Philadelphia, \$50,000. Architect, J. Franklin Stuckert, 112 South Forty-third street, Phila. Owner, Bishop Nicholson Memorial Reformed Episcopal Church, care of Thomas Martindale, Tenth and Market streets, Philadelphia. Stone and plaster, 1, 2 and 3 stories, 90x140 feet, slate and slag roof (steam heating and electric lighting reserved), dampproofing. Contract awarded to A. Raymond Raff, 1635 Thompson street, Philadelphia.

High Explosive Building, Frankford, Philadelphia, \$32,000. Architect, private plans.

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Owner, United States Government, care of Col. George Montgomery, Frankford Arsenal, Philadelphia. Brick, concrete, steel, 1 story, 199x48 feet, asbestos, slate roof, vacuum heating, concrete and composition floors. Contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia. Heating, plumbing and lighting will be installed by owners.

Store and Loft Building, 1309 Vine street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, H. S. Marks, care of architect. Brick, 2 stories, 20x80 feet, slag roof, steam heating, electric lighting, metal lath, metal sash and frames. Contract awarded to Samuel Schultz, 923 East Moyamensing avenue, Philadelphia.

Hospital (alt. and add.), Seventeenth and Vine streets, Philadelphia, \$5,000. Architect, H. L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, Charity Hospital, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting. Contract awarded to K. E. Bonney, Parkway Building, Philadelphia.

Residence, Wissahickon avenue, near Carpenter street, Germantown, \$10,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, G. Richard Nichols, on premises, stone and plaster, 2½ stories, 28x65 feet, slate roof (hot air heating, electric lighting reserved). Contract awarded to Kohl & Megargee, 124 East Gorgas street, Germantown.

Picture Theatre, 1529-31 Chestnut street, Philadelphia, \$33,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Frank DeLong, Thirteenth and Chestnut streets, Philadelphia. Brick and terra cotta, 1 story, 47x165 feet, slag roof, metal lath, metal sash and frames, tile floors (heating and lighting reserved). Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia.

Passenger Station (alt. and add.), Wayne Junction, Philadelphia. Architect, William Hunter, Reading Terminal, Philadelphia. Owner, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Brick, 1 story, slag and tile roof, hot water heating, electric lighting, enamel brick, elevator, waterproofing, carborundum tracks. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Mission House (alt. and add.), Eighth street and Snyder avenue, Philadelphia, \$60,000. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, St. Martha's House, on premises. Brick, 4 stories; consists of general alterations and additions, fireproof, safety treads, metal lath, steam heating, electric lighting, oak floors. Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia.

Church Building, Twenty-second and Moore streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Twenty-second Street M. E. Church,

care of Dr. J. E. Gallagher, on premises. Brick and stone, 2 stories and basement, 42x125 feet, slate and slag roof (heating and lighting reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Residence and Garage, Sixty-fourth street and Church road, Philadelphia, \$18,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, A. Helmar Englund, Seventeenth and Cambria streets, Philadelphia. Brick, 2½ stories, 50x60 feet (electric lighting and heating reserved), tile roof, hardwood floors. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence, Crefelt and Hamton avenue, Germantown, \$50,000. Architects, Furness Evans Co., Provident Life Building, Philadelphia. Owner, George Howe, 8864 Germantown avenue, Philadelphia. Brick and stone, 4 stories, 48x64 feet, slate roof, hot water heating, electric lighting, oak floors. Contract awarded to J. M. Stevens, 8110 Germantown avenue, Germantown.

Storage Building, Fifty-second and Lancaster avenue, Philadelphia, \$9,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. K. Alcott, Eighteenth and Washington avenue, Philadelphia. Brick and frame, 1 story, 60x171 feet, slag roof. Contract awarded to A. H. Prentzel, Johnson and Sherman streets, Germantown.

Garage, Nippon and Jefferson streets, Philadelphia, \$3,800. Architect, R. B. McGoodwin, 34 South Sixteenth street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 2 stories, 22x44 feet, shingle roof, hot water heating, electric lighting. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Wagon Shed, Jefferson and Marvine streets, Philadelphia, \$5,000. Architect, Charles H. Caspar, 48 North Fifteenth street, Philadelphia. Owners, Supplee Alderney Dairy, on premises. Brick, 1 story, 63x154 feet, slag roof, steel sash. Contract awarded to Burd P. Evans & Co., Thirteenth and Wallace streets, Philadelphia.

Residence, Germantown, Philadelphia, \$13,000. Architect, Spencer Roberts, Weightman Building, Philadelphia. Owner, Charles C. Wiggins, 1122 Chestnut street, Philadelphia. Stone, 2½ stories, 28x55 feet, wing 10x20 feet, shingle roof, hot air heating, electric lighting, oak floors. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building, Philadelphia.

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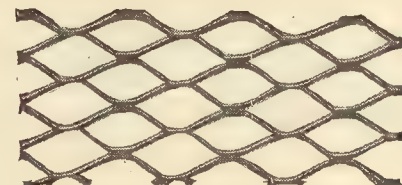
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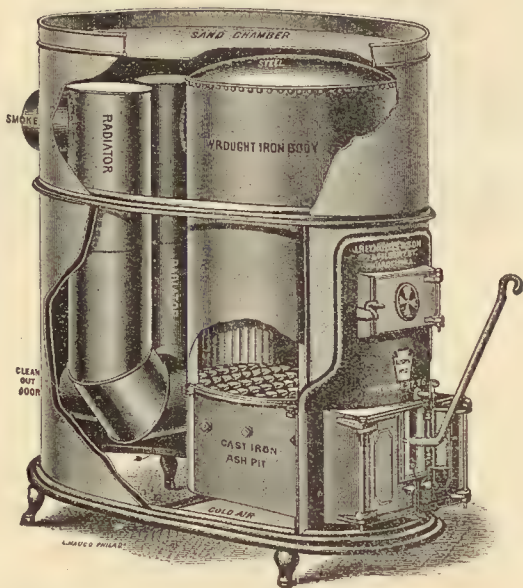
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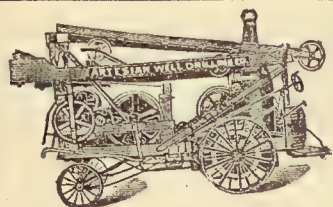
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PENNSYLVANIA Construction News

Residence, Melrose Park, Pa. \$8,000. Architects, Neff & Thames, Heed Building, Philadelphia. Owner, Harry Largman, Tenth and Berks streets, Philadelphia. Hollow tile and plaster, 2½ stories, 30x35 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Plans in progress. Architects will take bids in two weeks.

School, Eddystone, Pa. \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Board of Education, Eddystone, Pa. Brick and terra cotta, 2 stories, 75x85 feet, slag roof, slate blackboards (heating and electric work, separate bids). Owners have received bids.

Sunday School, Hartsville, Pa. Architect, Wesley Mullin, Maple Glenn, Pa. Owner, Warwick Presbyterian Church, Hartsville, Pa. Stone and Stucco, 1 story, 31x50 feet, slate roof, steam heating. Architect has received bids.

Play House, Elkins Park, Pa. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, name withheld. Frame, 1 story, 25x30 feet, slate roof, electric lighting (heating reserved). Architects have received bids.

Residence, Lamott, Pa. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, S. S. Wilson, Lamott, Pa. Frame, 2½ stories, 16x43 feet, slag and tin roof, hot air heating, gas lighting. Architects have received bids.

High School (add.), Lansdowne, Pa. \$50,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2 stories, 160x68 feet, slate roof, steam heating, gas and electric lighting, metal lath, dampproofing and waterproofing. Plans about completed. Owners will advertise for bids August 21st.

Church and Sunday School, Easton, Pa. \$30,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Luke's Evangelical Lutheran Church, care of Rev. A. M. Stump, 121 South Eleventh street, Easton, Pa. Stone, 1 story, 50x200 feet, slate roof, steam heating, electric lighting, composition floors. Owners taking bids due August 28th, at 6 P. M. The following are figuring: F. Roe Searing, Perry Building, Philadelphia; Peter Wohlsen, 340 College avenue, Lancaster, Pa.; A. A. Bechtel, Northampton National Bank Building, Easton, Pa.; H. J. Wenzelberger, Phillipsburg, N. J.; F. J. Lerch & Co., Pine and West streets, Easton, Pa.; Fink & Seidle, Colonial Trust Building, Reading, Pa.

Bungalow, South Bethlehem, Pa. \$6,000. Architects, Leh & Bitting, South Bethlehem, Pa. Owner, J. C. Henry, South Bethlehem, Pa. Hollow tile and stucco, 1 story, 49x43

feet, shingle roof, hot water heating, electric lighting, metal lath, waterproofing and damp-proofing. Architects taking bids.

Picture Theatre, Coplay, Pa. \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, John L. Dugan, Coplay, Pa. Brick, 1 story, 30x89 feet, slag roof, steam heating, electric lighting, concrete floors, tile work. Owner taking bids.

High School, Allentown, Pa. \$250,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Board of Education, T. P. Wenner, Secretary, Allentown, Pa. Brick, 3½ stories, 250x150 feet, inlaid slate roof, tile work, metal lath, waterproofing and damp-proofing (heating and electric work separate bids). Owners taking bids, due August 26th. The following are figuring: Melody & Keating, Bailey Building, Philadelphia, and W. A. Stein & Co., Ochs Construction Co., William H. Gangewere, George H. Hardner, Butz & Clader, J. Nagle, all of Allentown, Pa.

Residence, Radnor, Pa. \$40,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Mills, Bryn Mawr, Pa. Stone and plaster, 2½ stories, 138x77 feet, tile roof, electric lighting, hardwood floors (heating, lighting and plumbing reserved). Plans about completed. Architect will take bids in one week.

Double Residence, Allentown, Pa. \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, H. Haas, 312 North Jefferson street, Allentown, Pa. Hollow tile and stucco, 2½ stories, 18x44 feet, slate roof, vapor heating, gas and electric lighting, tile work, hardwood floors. Plans in progress.

Dyeing Plant (alt. and add.), Allentown, Pa. \$10,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owners, National Silk Dyeing Co., Allentown, Pa. Brick, 1 story, 47x130 feet and 30x50 feet, slag roof, steam heating, electric lighting, concrete floors, waterproofing and damp-proofing. Architects ready for bids.

Bungalow, Easton, Pa. Architect, William Michler, Easton, Pa. Owner, William J. Jacobs, Easton, Pa. Brick, 2 stories, 48x57 feet, slate roof, hot air heating, electric lighting, tile work, hardwood floors, waterproofing and dampproofing. Architect taking bids.

Twin Bungalow, Easton, Pa. \$6,000. Architect, Edward H. Wenzelberger, Easton, Pa. Owners, Ralph Bros., 234 South Third street, Easton, Pa. Frame, 2½ stories, 32x80 feet, slate roof, hot air heating, gas and electric lighting, tile work. Owners taking bids.

School (add.), Wilson Township, Pa. \$18,000. Architects, Leh & Bitting, South Bethlehem, Pa. Owners, Board of Education, Wilson Township, Pa. Brick, 2½ stories, 40x68

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feet, slate roof, slate blackboards (heating and electric work separate bids). Owners taking bids, due August 22nd. The following are figuring: George F. Pawling & Co., Broad and Vine streets, Philadelphia; F. E. Whitesell, Bethlehem, Pa.; Stoult & Mertinger, Bethlehem, Pa.; Brtz & Clader, Allentown, Pa.; Milton C. Pascoe, Easton, Pa.; Hersh Bros., Allentown, Pa.; A. A. Bechtel, Easton, Pa.

Store and Theatre, Allentown, Pa., \$75,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Fred B. Gerner, 504 Hamilton street, Allentown, Pa. Brick, steel and concrete, 2½ stories, 80x230 feet, slag roof, steam heating, gas and electric lighting, tile work, composition floors, metal lath, waterproofing and dampproofing. Plans about completed. Architect will take bids in a few days.

Church and Sunday School, Allentown, Pa., \$50,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. James Reformed Church, Allentown, Pa. Stone, 1 and 2 stories, 45x100 feet and 35x100 feet, slate roof, steam heating, electric lighting, metal lath. Plans completed. Architect ready for bids.

Bank, Lebanon, Pa., \$10,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Northside Bank, Lebanon, Pa. Brick and terra cotta trimmings, 1 story, 20x80 feet, Carey's roof, steam heating, electric lighting, tile work, metal lath, waterproofing and dampproofing, banking fixtures. Plans in progress.

Apartment House, Reading, Pa., \$20,000. Architect, William A. Fink, 426 Franklin street, Reading, Pa. Owner, George Lerch, Reading, Pa. Brick, 3 stories, 20x100 feet, tin roof, steam heating, gas and electric lighting. Plans in progress.

Residence, Reading, Pa., \$15,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Koller, 126 North

Fifth street, Reading, Pa. Brick, stone trimmings, 2½ stories, 50x43 feet, metal tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work, composition floors. Plans in progress. Architect will take bids in two weeks.

Residences (12), Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owners, John K. Faust & Son, Reading, Pa. Stone, brick and cement, 3 stories, 16x54 feet each, slate and tin roofs, hot air heating, gas and electric lighting, tile work. Plans in progress.

Mission House, Reading, Pa., \$20,000. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owner, Hope Rescue Mission, care of William White, 228 Wood street, Reading, Pa. Brick, 3 stories, slag roof, steam heating, electric lighting. Plans in progress. Architect will not take bids until fall.

Garage, Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, Colonel Geo. S. Beck, Wyomissing, Pa. Concrete, 1 story, 14x22 feet, slate roof, electric lighting. Plans in progress.

Residence, Wyomissing, Pa., \$35,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, H. K. Janssen, Wyomissing, Pa. Stone, 3 stories, tile roof, hot water heating, gas and electric lighting, tile work, hardwood floors, metal lath, waterproofing and dampproofing. Architect taking revised bids. George & Koch, 1024 Robeson street, Reading, Pa., are figuring.

Sanitarium (add.), Cresson, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, State of Pennsylvania, Department of Health and Charities, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia. Stone, fireproof, 4 stories, 100x200 feet, consists of west ward building and connecting building, slate roof, metal lath, waterproofing (heating, lighting, ventilating and plumbing separate bids). Owners taking bids, due September 4th. Plans may be obtained from architect or owners upon deposit of \$25.00, on or after Friday, August 21st.

PENNSYLVANIA

Contracts Awarded

Apartment House (alt. and add.), 1819 W. Third street, Chester, Pa., \$4,800. Architect, C. Henry Wilson, 1130 Lombard street, Philadelphia. Owner, F. W. Rutherford, National Benefit Association, Washington, D. C. Brick, 2 stories, 20x66 feet, hot water heating, electric lighting, hardwood floors, fireproofing, metal lath. Contract awarded to W. J. Robinson, 1508 Lombard street, Philadelphia.

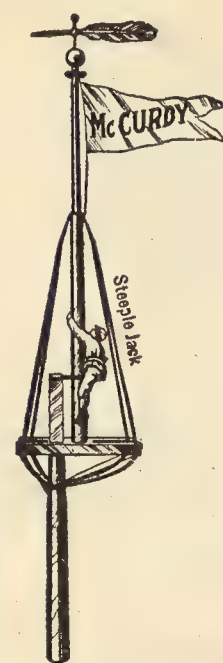
Inspection Shed, Paoli, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Steel, 1 story, 100x257 feet, slag roof, steel sash, metal lath (heating and electric work reserved). Contract awarded to Brann & Stuart Co., Commercial Trust Building, Philadelphia.

Sub-Stations (2), Paoli and Bryn Mawr, Pa., Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owner, Pennsylvania

Railroad Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 2 stories, 43x27 feet each, Mastic roof, metal frames and sash. Contract awarded to Brann & Stuart Co., Commercial Trust Building, Philadelphia.

School, Plymouth Meeting, Pa., \$20,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Plymouth Township School Board, Plymouth Meeting, Pa. Brick, 2 stories, 50x90 feet, slag roof, metal ceilings, electric lighting, maple floors, slate blackboards. Contract awarded to Alexander Chambley, 243 South Tenth street, Philadelphia.

School, Ivy Rock, Pa., \$4,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Plymouth Township School Board, I. Harold Shoemaker, Secretary, R. F. D. No. 2, Conshohocken, Pa. Brick, 1 story, 40x60 feet, slag roof, metal ceilings,



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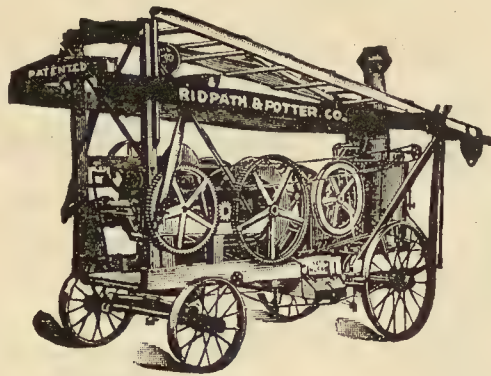
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slate blackboards (hot air heating, separate bids). Contract awarded to J. H. Jackson, Jr., Norristown, Pa.

Residence, Penllyn, Pa., \$9,000. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, Albert L. Smith, Franklin Bank Building, Philadelphia. Hollow tile and plaster, 2½ stories, 44x46 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Contract awarded to J. S. Cornell & Son, Land Title Building, Phila.

Residence (alt. and add.), Merion, Pa., \$7,000. Architect, L. V. Boyd, Harrison Building, Philadelphia. Owner, George W. McKinney, Narberth, Pa. Stone, 2½ stories, 23x41 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work.

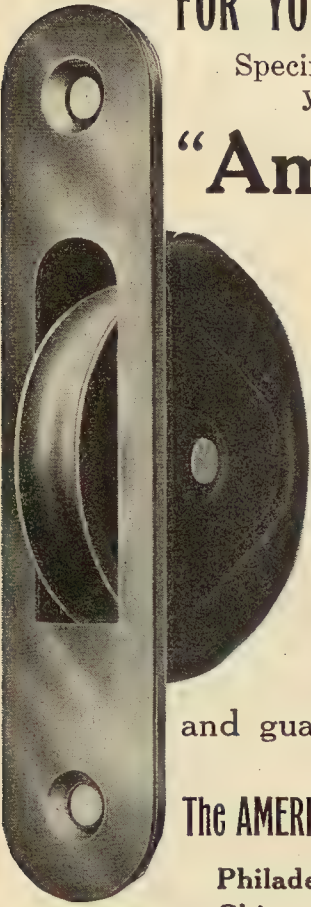


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ened steel.

Finished to
match any hard-
ware; non-rusting
and guaranteed.

The AMERICAN PULLEY COMPANY

Philadelphia New York
Chicago Boston

Pat.

Contract awarded to W. D. Smedley, Narberth, Pa.

Residence (alt. and add.), Easton, Pa. Architect, William Michler, Easton, Pa. Owner, J. I. Kinsey, Easton, Pa. Brick, 2½ stories, slate and tin roof, electric lighting, hardwood floors, tile work. Contract awarded to Asa Smith & Son, Easton, Pa.

Residence and Laundry (alt. and add.), Ambler, Pa. Architect, Thomas B. Lippincott, Huntingdon Valley, Pa. Owner, John Cadwalader, Jr., 263 South Fourth street, Philadelphia. Brick and plaster, 3 stories, shingle and slag roof, canvas roof (heating and lighting reserved). Contract awarded to Albert Beck, Ambler, Pa.

Residences (4), Riverside, Reading, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, Mrs. Anna Millheim, Riverside, Reading, Pa. Brick and frame, 2½ stories, 14x54 feet each, slate and tin roof, hot air heating, gas and electric lighting. Contract awarded to Charles Schlegel, Mt. Penn, Pa.

New Jersey Construction News

Residence, Collingswood, N. J., \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, W. Earle Powel, Merchantville, N. J. Hollow tile and stucco, 2 stories, 49x60 feet, slate roof, hot water heating, gas and electric lighting, oak floors. Architects taking bids.

School (alt. and add.), Barnegat, N. J., \$7,500. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education of Union Township, Barnegat, N. J. Frame and hollow tile, 2 stories, 38x24 feet, tin roof, mechanical warm air heating system, metal lath. Owners taking bids due August 24th.

School, Pennsgrove, N. J., \$30,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Pennsgrove, N. J. Brick, stone trimmings, 2 stories, 60x160 feet, slag roof, steam heating, gas and electric lighting, metal lath, slate blackboards. Plans about completed. Owners will advertise for bids August 21st.

Post Office (alt.), Camden, N. J. Architect, private plans. Owner, United States Government, C. P. Sayres, Custodian, Camden, N. J. Consists of partitions and office screens, electric lighting. Owner has received bids.

Printing Plant, Trenton, N. J., \$10,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owners, Hazlett-Harrison Co., 1446 East State street, Trenton, N. J. Brick and steel, 2½ stories, 40x85 feet, slag roof, steam heating, electric lighting, metal ceilings. Plans in progress. Architect will take bids in one week.

Theatre (alt.), Trenton, N. J., \$3,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Mercer County Amusement Co., care of Charles Hildinger, Trenton, N. J.; consists of new front and interior alterations, steam heating, electric lighting, tile work, iron marquee. Architect ready for bids.

Twin Residence, Trenton, N. J., \$9,000. Architect, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. W. Slack, American Mechanics' Building, Trenton, N. J. Brick, 2½ stories, 36x42 feet each, slate roofs, gas and electric lighting, hardwood floors, tile work (heating reserved). Architects taking bids. In addition to those previously reported, the following are figuring: Burton & Burton, John Maher, and Geo. Watson, all of Trenton, N. J.

Residence, Haddon Heights, N. J. Architect, H. L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, John Beehler, Jr., 3041 North Fifteenth street, Philadelphia. Stone, 2 stories, 30x45 feet, shingle roof, steam heating, electric lighting. Plans in progress. Bids in two weeks.

Sunday School Building, Plainfield, N. J. Architects, Charles Bolton & Sons, Witherpoon Building, Philadelphia. Owner, Netherwood Reformed Church, care of Rev. E. Raulston, Plainfield, N. J. Brick and terra cotta, 1 story, 50x60 feet, slate and tin roof, steam heating, electric lighting. Architects taking bids, due August 24th. The following are figuring: W. C. Smith, Taleny Bros., W. H. Pangborn & Sons and F. McInerney, all of Plainfield, N. J.

New Jersey Contracts Awarded

Power House, Trenton, N. J. Architect, A. Swan, Broad Street Bank Building, Trenton,

N. J. Owner, Princeton Worsted Mills, 115 Fair street, Trenton, N. J. Brick and concrete, 2 stories, 35x45 feet, slag roof, steam heating, electric lighting, concrete floors, dampproofing and waterproofing. Contract awarded to Burton & Burton, American Mechanics' Building, Trenton, N. J.

Residence, Trenton, N. J., \$4,000. Architect, John Phelps Pette, 131 Jackson street, Trenton, N. J. Owner, J. A. H. Delp, 335 Pennington street, Trenton, N. J. Frame and stucco, 2½ stories, 31x31 feet, shingle roof, hot air heating, electric lighting, tile work, metal lath. Contract awarded to Elmer Stout, Trenton, N. J.

Warehouse (alt.), Camden, N. J., \$4,000. Architect, Thomas Stephen, Masonic Temple, Camden, N. J. Owners, Gatley & Hurley Co., 801 Broadway, Camden, N. J. Brick elevator shaft, electric lighting, concrete floors, electric freight elevator, 6 steel shutters. Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Miscellaneous Construction News

Residence (alt. and add.), Gordon Heights, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owner, C. S. Young, Gordon Heights, Del. Stone and plaster, 3 stories, slate roof, electric lighting, hardwood floors, tile work. Plans in progress.

Apartment House, Wilmington, Del., \$25,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. Brick, stone trimmings, 3 stories, 40x90 feet, slag roof, hot water heating, gas and electric lighting, tile work, hardwood floors, metal lath, waterproofing and damp-proofing. Plans in progress.

Residence, Wilmington, Del., \$10,000. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, J. B. McHugh, Eighth and Church streets, Wilmington, Del. Stone or brick, 2½ stories, 37x40 feet, tile or shingle roof, vapor heating, gas and electric lighting, hardwood floors, tile work. Architect has received bids.

Sunday School, Portsmouth, Ohio, \$20,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, German Evangelical Church, Portsmouth, Ohio. Brick, stone trimmings, 1 story, 56x72 feet, slate roof, steam heating, gas and electric lighting. Plans about completed. Owners will take bids in one week.

Miscellaneous Contracts Awarded

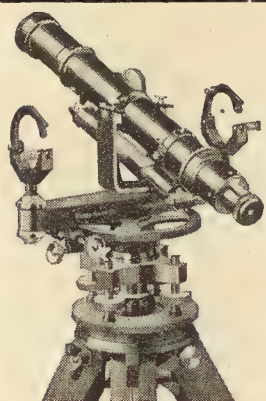
Apartments and Stores (alt. and add.), Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. James P. Robbins, 208 West Seventh st., Wilmington, Del. Brick, 2 stories, 18x66 feet, gas and electric lighting. Contract awarded to John E. Healy & Sons, 707 Tatnall street, Wilmington, Del.

Round House, Memphis, Tenn. Architect, private plans. Owner, Southern Railway Co., 1300 Pennsylvania avenue, Washington, D. C. Brick, steel and concrete, 1 story, 93x300 feet, slag roof, dampproofing (heating and electric work reserved). Contract awarded to Consolidated Engineering Co., Calvert Building, Baltimore, Md.

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

Don't expect outsiders to give you a big rating on a one-inch space.



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after a careful comparison, the wise Builder invariably chooses a "Sterling" Transit or Level? Ask the man who has one, or better yet, come and examine the new Models here at the Factory where they are made!

Remember, these Philadelphia made instruments are unexcelled! A visit to us will convince you of this fact and be time well spent.

We Repair and Adjust all makes of instruments and take old instruments in exchange.

The Instrument You will Ultimately Select!

WARREN-KNIGHT COMPANY

136 N. TWELFTH STREET

PHILADELPHIA

MARYLAND Construction News

Residences (11), 500 to 520 Seventh street, Baltimore, Md., \$14,000. Architect, private plans. Owner, Samuel A. Bersterman, 36 North Potomac street, Baltimore, Md. Brick, 2 stories, 14x46 feet each, slag roofs, hot air heating, electric lighting. Owner is sub-letting all contracts.

Residences (7), Eleventh street, between Edmondson and Harlein avenues, \$17,500. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owner, John J. Carlin, Shirley avenue, near Park Heights, Baltimore, Md. Brick, 2½ stories, 22x36 feet each, slate roofs, steam heating, electric lighting, tile work, hardwood floors. Owner is sub-letting all contracts.

Residences (30), West side of Pimlico road, near Disney avenue, Baltimore, Md. Architect, private plans. Owner, Patapsco Real Estate & Construction Co., R. F. West, President, 910 North Fulton avenue, Baltimore, Md. Brick, 2 stories, 16x45 feet each, slag roofs, hot air heating, electric lighting. Owner will take sub-bids.

Residence, Harford County Md., \$8,000. Architect, Bayard Turnbull, 324 North Charles street, Baltimore, Md. Owner, Robert A. Fisher, 1420 Park avenue, Baltimore, Md. Frame, 2½ stories, shingle roof, steam heating, electric lighting. Architect taking bids. The following are figuring: R. F. Chambers, Roland avenue and Thirty-sixth street; Willard E. Harn Co., 213 West Calvert street; G. W. Torell, Eutaw and Dolphin streets; R. B. Mason, 308 West Madison avenue; Frank Spellman, 15 East Fayette street, all of Baltimore, Md.

Dormitories, Towson, Md., \$100,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owner, State Normal School, Towson, Md. Brick, stone and terra cotta, 3 stories, 83x24x78 feet, slate roof, steam heating, electric lighting, tile work, metal lath, dampproofing and waterproofing. Architect taking bids due August 26th. The following are figuring: Edward Brady & Son, Cathedral and Howard streets; J. Henry Miller, Inc., Eutaw and Franklin streets; Morrow Bros., Fidelity Building; Henry Smith

Sons Co., Light and German streets; Singer-Pentz Co., Equitable Building; C. L. Stockhausen, Gay and Water streets, all of Baltimore, Md.

School, Ocean City, Md., \$30,000. Architect, Theodore Wells Pietsch, American Building, Baltimore, Md. Owner, Worcester County School Board Commissioners, care of E. W. McMaster, Superintendent and Treasurer, Pocomoke City, Md. Brick, 2 stories, 76x76 feet, slate and tin roof, steam heating, electric lighting, metal lath, dampproofing and waterproofing, slate blackboards. Owners taking revised bids due August 28th. The following are figuring: Singer-Pentz Co., Equitable Building, Baltimore, Md.; E. D. Springer & Co., 424 South Charles street, Baltimore, Md.; H. B. Pilchard, Pocomoke City, Md.; T. H. Mitchell, Salisbury, Md.; E. S. Atkins, Salisbury, Md.; W. D. Corddry, Snow Hill, Md.; L. M. Holland, Berlin, Md.

Sunday School, Broadway and Gay street, Baltimore, \$35,000. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owner, Faith Presbyterian Church, on premises. Brick, stone and steel, 3 stories, will contain gymnasium, slate roof, steam heating, electric lighting, metal lath, dampproofing and waterproofing. Plans in progress.

Church, Lafayette avenue and Washington street, Baltimore, \$10,000. Architect, private plans. Owner, Bethany M. P. Church, on premises. Stone and concrete, 2 stories, slate roof, steam heating, electric lighting. Owner taking bids. Cowan Building Co., 106 West Madison street, Baltimore, Md., is figuring.

Bank (alt. and add.), Salisbury, Md. Architect, not yet selected. Owner, Salisbury National Bank, John H. White, Cashier. Brick, 2 stories, 35x25 feet, slate roof, steam heating, electric lighting, tile work, metal lath, banking fixtures. Architect will soon be selected.

Church, Hamilton, Md. Architect, not yet selected. Owner, Hamilton Baptist Church, care of Rev. W. H. Baylor, 1311 North Caroline avenue, Baltimore, Md. Brick, 2 stories, slate roof, steam heating, electric lighting. Architect will soon be selected.

MARYLAND Contracts Awarded

Residence, Cedarcroft, Md., \$5,000. Architect, private plans. Owner, Robert B. Thompson, Cedarcroft, Md. Frame, 2 stories, slate roof, hot water heating, electric lighting. Contract awarded to Henry A. Knott, 1340 North Eden street, Baltimore, Md.

Cottages (2), Montgomery and Windsor Mill road, Baltimore, Md., \$6,000. Archi-

tect, J. R. Forsythe, 332 St. Paul street, Baltimore, Md. Owner, Idlewyde Realty Co., 2 East Lexington street, Baltimore, Md. Frame, 2 stories, 20x31 feet each, slate roof, steam heating, electric lighting. Contract awarded to Cottage Construction Co., 2 East Lexington street, Baltimore, Md.

Garage, 443-49 St. Mary street, Baltimore,

A Gas Circulating Water Heater

furnishes hot water economically and quickly.

Does away with continuous coal fires and keeps the kitchen cool.

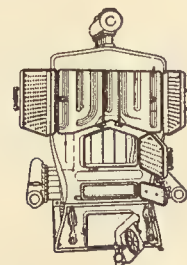
Eliminates coal and ashes and makes the use of the Gas Range possible all year round.

Heaters cost only \$13.50 up.

Time payment if desired.

THE UNITED GAS IMPROVEMENT CO.

MILLS



"Reputation"

Some of the most famous buildings in the country are equipped with Mills Water Tube Boilers.

They are always found where "GOOD QUALITIES" count.

The H. B. SMITH CO.

1225 Arch Street

PHILADELPHIA - PA.

Md., \$7,000. Architect, F. E. Beall, 306 St. Paul street, Baltimore, Md. Owner, Mary E. Miles, 445 St. Mary street, Baltimore, Md. Brick, 2 stories, 40x74 feet, slag roof, steam heating, electric lighting, concrete floors, waterproofing and dampproofing. Contract awarded to J. E. Stansfield & Co., care of owner, 443 St. Mary street, Baltimore, Md.

Academy Buildings, Ridgely, Md. Architect, private plans. Owner, St. Gertrude's Academy, Ridgely, Md. Consists of chapel, 2 stories, 89x200, Academy building, 4 stories, 72x144 feet, power house and laundry, 3 stories, 24x36 feet, frame and stucco, slate roof, steam heating, electric lighting, tile work, metal lath, dampproofing and waterproofing. Contract awarded to McIver Contracting Co., Law Building, Baltimore, Md.

Bridge, foot of Hanover street, over Patapsco River, Baltimore, Md., \$667,897.50. Engineer, private plans. Owner, State of Maryland, State Roads Commission, Garrett Building, Baltimore, Md. Concrete and steel, 45 feet above water, 2,300 feet long, 70 feet wide. Contract awarded to H. P. Converse & Co., Boston, Mass.

Residence (alt. and add.), Roland Park, Md., \$6,000. Architect, Laurence Hall Fowler, 347 North Charles street, Baltimore, Md. Owner, Bessie Brown Griswold, Roland Park, Md. Brick, 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to Willard E. Harn Co., 213 North Calvert street, Baltimore, Md.

Parish Hall, Catonsville, Md., \$8,000. Architect, George R. Callis, Jr., Knickerbocker

Building, Baltimore, Md. Owner, St. Mark's R. C. Church, Catonsville, Md. Frame, 1½ stories, 40x100 feet, tin roof, steam heating, electric lighting. Contract awarded to James J. O'Connor, 427 East Lexington street, Baltimore, Md.

Store Building (alt. and add.), 5 and 7 South Eutaw street, Baltimore, Md., \$7,700. Architect, private plans. Owner, Henry D. Koethe, 20 South Liberty street, Baltimore, Md. Brick, 2 stories, 35x68 feet, slag roof, steam heating, electric lighting. Contract awarded to Horace Ford, 619 North Tremont avenue, Baltimore, Md.

Cottage, 3504 Powhatan street, Baltimore, Md., \$4,000. Architect, private plans. Owner, Mrs. Mary Cockran, care of Builder. Frame, 2 stories, 33x44 feet, slate roof, steam heating, electric lighting. Contract awarded to George R. Morris, Gunther Building, Baltimore, Md.

Garage, Roland Park, Md., \$1,000. Architect, E. L. Palmer, Roland Park, Md. Owner, D. W. Williamson, Homewood Apartments, Baltimore, Md. Frame, 1½ stories, 21x25 feet, slate roof, hot water heating, electric lighting. Contract awarded to R. B. Mason, 306 West Madison street, Baltimore, Md.

Residence, Guilford, Md., \$14,000. Architect, E. L. Palmer, Roland Park, Md. Owner, Max Broedel, 707 North Carrollton avenue, Baltimore. Frame and stucco, 2½ stories, slate roof, steam heating, electric lighting, hardwood floors, tile work. Contract awarded to Raymond E. Chambers, Thirty-sixth and Roland avenue, Baltimore, Md.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

C. M. Green (O), 5458 North Fifth street. Cost, \$22,000. Eleven dwellings, 2 stories, 16x34 feet, Clarkson and America streets. Cost, \$16,000. Eight dwellings.

Richard Mildey (O), 4732 D street. Cost, \$10,800. Four dwellings, brick, 2 stories, 16x44 feet, Rising Sun lane and Levick street.

W. Shuster (O), 7405 K street. H. F. Hartwig (C), 7403 J street. Cost, \$2,000. Dwelling, brick, 2 stories, 16x39 feet, Claude and Bleigh streets.

M. J. Grenfield (O), Real Estate Trust Building. George Hogg (C), 1634 Sansom street. Cost, \$40,000. Theatre, brick, 1 story, 120x194 feet, Seventeenth and Atlantic streets. Cost, \$5,000. Dwelling, brick, 2 stories, 56x22 feet, Oak lane, Philadelphia.

J. J. Radley (O), Fifteenth and Duncannon streets. Cost, \$8,400. Two dwellings, brick, 3 stories, 16x51 feet, 5201-03 North Fifteenth street. Cost, \$70,400. Fifteen dwellings.

H. Nonamacher (O), 806 Hilton street. E. Henderson (C), 6308 H street. Cost, \$2,700. Dwelling, brick, 2 stories, 16x50 feet, Hellerman and Palmetto streets.

Max Snyder (O), 1935 South Sixth street. Levin Bros. (C), 1937 South Sixth street. Cost, \$4,000. Dwelling, brick, 3 stories, 15x68 feet, 744 Morris street. Cost, \$8,000. Two dwellings.

H. P. Boone (O), 3225 North Front street. J. W. Mortimer (C), 3024 E street. Cost, \$1,500. Manufacturing building, brick, 2 stories, 40x54 feet, 3224 North Lee street.

C. Phillips (O), 130 West Tabor road. Cost, \$2,400. Dwelling, brick, 2 stories, 16x30 feet, Front and Tabor streets.

Board of Education (O), City Hall. Thos. Reilly (C), 1616 Thompson street. Cost, \$15,000. School, brick, 4 stories, 63x206 feet, Germantown avenue and High street.

Charles Schmid (O), 4730 Tacony street. J.

Gothingham (C), 3367, Frankford avenue. Cost, \$3,800. Two dwellings, brick, 2 stories, 14x30 feet, 4720-22 Tacony street.

Charles Zaiser (O), 4441 Silverwood street. H. R. Bickinger (C), Manatawna avenue. Cost, \$4,000. Dwelling, brick, 3 stories, 25x32 feet, Manayunk, Philadelphia.

Schreiber & Stinhausner (O), 5424 North Fifth street. Cost, \$6,000. Two dwellings, brick, 2 stories, 15x36 feet, Fifth and Olney avenue.

Quaker City Rubber Co. (O), Milnor and Comly streets. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$50,000. Manufacturing, brick, 4 stories, 47x71 feet, Milnor and Comly streets.

SOME MORE ADVERTISING

"DONT'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

You can't get figs from thistles. Nor can you get an assured income from a shoe-string advertising proposition.

Alterations and Additions

P. F. Keenan (O), 1200 Chestnut street. Mitchell Bros. (C), 2125 Race street. Cost, \$10,000. Store and office, 102 South Thirteenth street.

W. R. Richardson (O), Fourth and York streets. J. N. Gill (C), Heed Building. Cost, \$4,000. Saloon and dwelling, Fourth and York streets.

John Stevenson (O), Fifty-fourth street and Baltimore avenue. L. K. Smith (C), 4007 Chester avenue. Cost, \$1,200. Store and dwelling, Fifty-fourth street and Baltimore avenue.

Musical Fund Hall (O), 808 Locust street. C. H. S. Zebley (C), 306 Quince street. Cost, \$2,500. Hall, 808 Locust street.

W. Mann, Jr. (O), Oak Lane, Philadelphia. Specht & Sperry (C), Heed Building. Cost, \$1,600. Garage, Oak Lane, Philadelphia.

A. H. Buxbaum Co. (O), 3414 North Twenty-first street. W. J. Jones (C), 2927 North Fifth street. Cost, \$1,200. Office and dwelling, 3414 North Twenty-first street.

Schoette-Koerting (O), Twelfth and Thompson streets. C. E. Baxter (C), 23 North Twenty-second street, Camden, N. J. Cost, \$1,200. Manufacturing building, Twelfth and Thompson streets.

George Home (O), Chestnut Hill, Philadelphia. Humphrey Construction Co. (C), 1618 Thompson street. Cost, \$4,000. Dwelling, Chestnut Hill, Philadelphia.

Y. M. C. A. (O), 1421 Arch street. L. W. Fountain (C). Cost, \$5,000. Club house, 1421 Arch street.

Orthopedic Hospital (O), 1711 Summer street. A. MacTavish (C), 1515 Pine street. Cost, \$10,500. Hospital, 1711 Summer street.

S. Duffy (O), 539 West Olney avenue. A. Donaldson (C), 2237 Oakford street. Cost, \$3,000. Saloon, 2234 Richmond street.

J. Friedman (O), 648 South street. Joseph Bobb (C), 1001 McKean street. Cost, \$1,335. Store and dwelling, 648 South street.

Hilton Dyeing Co. (O), 2712 Jasper street. G. H. Thirsk (C), 2739 Jasper street. Cost, \$15,000. Dye House, 2712 Jasper street.

Carey Bros. Paper Manufacturing Co. (O), 2228 North Tenth street. J. B. Flounders (C), 1329 Arch street. Cost, \$1,500. Paper house, 2228 North Tenth street.

Eagle Ice & Coal Co. (O), 57 Hoffman street. Specialty Eng. Co. (C), Emerald and Cornwall streets. Cost, \$3,940. Coal pocket, 57 Hoffman street.

E. H. Butler (O), Chestnut Hill, Philadelphia. H. F. Murphy Co. (C), 1619 Sansom street. Cost, \$3,200. Dwelling, Chestnut Hill, Philadelphia.

M. E. Greenhouse (O), 115 South Fifteenth street. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$2,500. Hotel, No. 115 South Fifteenth street.

I. Schlechter (O), 3836 Frankford avenue. J. A. Hand (C), 8029 Frankford avenue. Cost, \$1,800. Garage, 3836 Frankford avenue.

Leaming Home (O), Germantown. F. E. Wallace (C), 1210 Sansom street. Cost, \$1,000. Home, Germantown.

E. E. Bratton (O), 5034 Cedar avenue. Bratton Co. (C), 233 South Fortieth street. Cost, \$6,000. Dwelling, Preston and Baring streets.

E. F. Prendergast (O), Eighteenth and Race streets. W. J. McShane (C), 417 South Thirteenth street. Cost, \$2,000. School, Twenty-eighth and Sedgley streets.

H. Brody (O), 1320 North Fourth street. L. M. Shestack (C), 322 Dickinson street. Cost, \$4,500. Slaughter house, 426 Fitzwater street.

W. G. Warden (O), School lane, Germantown. F. H. Rinker (C), 416 West Coulter street. Cost, \$1,200. Dwelling, School lane, Germantown.

M. J. Callahan (O), 3924 Market street. W. E. Biscoe (C), 3954 Ludlow street. Cost,

\$3,000. Dwelling and store, 3924 Market street.

P. E. Church of Covenant (O), Twenty-seventh and Girard avenue. A. McClintock (C), 1937 Ridge avenue. Cost, \$1,050. Church, Twenty-seventh and Girard avenue.

W. C. Haddock (O), 1023 Sixty-ninth avenue. W. J. Gruhler (C), 219 High street. Cost, \$1,800. Garage, 1023 Sixty-ninth avenue.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

NOTICE TO CONTRACTORS. NEW COUNTY BUILDING FOR NEW CASTLE COUNTY AND

NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission at the office of the Commissions, in the Church Building, at the corner of Market and Tenth streets, in the City of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time) on the 21st day of August, 1914, for the Plumbing Work, for the Mason Work, for the water-proofing, for the Floor and Roof Arches, for the Granite Work, for the Marble Work, for the Cut Stone Setting, for the Heating and Ventilating, for the Electric Wiring, for the Timbrel Vaulting, for the Sheet Metal and Roofing, for the Skylights, and for the Damp-proof Painting, entering into the construction and completion of the New County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King street and French street, and between Tenth street and Eleventh street, in the City of Wilmington, Delaware, and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings for each department or class of work above listed.

Each proposal for Plumbing shall be accompanied by a certified check or cash deposit in the amount of two thousand, five hundred (\$2,500) dollars.

Each proposal for Mason Work shall be accompanied by a certified check or cash deposit in the amount of two thousand, five hundred (\$2,500) dollars.

Each proposal for Waterproofing shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

Each proposal for Floor and Roof Arches shall be accompanied by a certified check or cash deposit in the amount of eight hundred (\$800) dollars.

Each proposal for Granite Work shall be accompanied by a certified check or cash deposit in the amount of three thousand (\$3,000) dollars.

Each proposal for Marble Work shall be accompanied by a certified check or cash deposit in the amount of two thousand five hundred (\$2,500) dollars.

Each proposal for Cut Stone Setting shall be accompanied by a certified check or cash deposit in the amount of one thousand five hundred (\$1,500) dollars.

Each proposal for heating and ventilating

shall be accompanied by a certified check or cash deposit in the amount of two thousand five hundred (\$2,500) dollars.

Each proposal for Electric Wiring shall be accompanied by a certified check or cash deposit in the amount of two thousand (\$2,000) dollars.

Each proposal for Timbrel Vaulting shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

Each proposal for Sheet Metal and Roofing shall be accompanied by a certified check or cash deposit in the amount of three hundred (\$300) dollars.

Each proposal for Skylights shall be accompanied by a certified check or cash deposit in the amount of three hundred (\$300) dollars.

Each proposal for Damp-proof Painting shall be accompanied by a certified check or cash deposit in the amount of two hundred and fifty (\$250) dollars.

The Commission to reserve the right to reject any or all proposals received if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more guarantee or surety companies, aggregating in amount fifty (50) per cent. of the amount of the contract.

The several contracts provide that the work included in them shall be completed in calendar days from the date of notice to start work as follows:

Contract for and Contract Time.

Plumbing: Four hundred and sixty-two calendar days.

Mason Work: Three hundred and twenty-four (324) calendar days.

Waterproofing: Eighty-two (82) calendar days.

Floor and Roof Arches: One hundred and twenty-eight (128) calendar days.

Granite Work: Two hundred and fifty-nine (259) calendar days.

Marble Work: Two hundred and fifty-nine (259) calendar days.

Cut Stone Setting: Two hundred and ninety (290) calendar days.

Heating and Ventilating: Four hundred and sixty-two (462) calendar days.

Electric Wiring: Three hundred and seventy-one (371) calendar days.

Timbrel Vaulting: One hundred and fifty-nine (159) calendar days.

Sheet Metal and Roofing: One hundred and fifty-nine (159) calendar days.

Skylights: One hundred and fifty-nine (159) calendar days.

Damp-proofing Painting: Three hundred and five (305) calendar days.

On and after August 13th the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission, in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to contractors intending to submit proposals on application to the Commissions, and upon the payment of a deposit of fifty (50) dollars; this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before September 1st, 1914. Additional copies will be furnished upon the payment by the contractor of the net cost of the same.

THOS. F. GORMLEY,

Secretary of the New Castle County Building Commission and of the Wilmington Building Commission.

Play-it-on-a-hunch advertising is not the kind that wins out. The steady, persistently repeated note of appeal is what tells.—Cement World.

WORLD'S HEAVIEST OFFICE BUILDING.

The Equitable Building, now under construction in New York City, from its great area, presents an interesting problem in heavy erection. It will be the heaviest office building in the world when finished. The steel erection was made especially difficult by extensive cross-lot timber bracking, which holds the basement retaining wall until sufficient steel work has been installed to take the load. It was necessary to set the derricks and with them erect the steel work for the three stories below ground, all without damage to the cross-lot bracing.

The new building will be about 160x312 feet in plan and about 500 feet above the street and 65 feet below at lowest point. It is considered a 36-story building, but there will be intermediate floors at the third and thirty-fourth floor levels, making thirty-eight floor levels.

The elevators, stairways, lavatories, smoke-stack, etc., will be placed in the center or core of the building. All offices will have an exterior exposure.

The steel work was erected to the second floor by six steel guy derricks, with 76-foot masts and 65-foot booms. The heaviest column weigh 32 tons. Above the second floor the heaviest piece to be handled weighs about 16 tons, and 15-ton derricks with 90-foot masts and 85-foot booms replaced the original six. The longer reach of these lighter derricks rendered them much more useful in handling material from the street.

After the steel work west of wall columns 7 and 125 were erected, derricks proceeded to erect the basement steel work eastward, moving forward along the basement steel, erecting steelwork ahead, similar to the moving of traveler. In his way liability of accident to the cross-lot bracing was reduced, and the expense of building bents for supporting the derrick was eliminated.

The total steel aggregates 33,000 tons. It is shipped to Greenville, N. J., lightered over to New York City in the vicinity of the Battery, and trucked the job. Each derrick handles the steel from the street for its particular section.—"Engineering News."

CEMENT PRODUCTION IN 1913.

All records for production of Portland cement in the United States were broken in 1913 when the total output was 92,949,102 barrels valued at \$93,001,169, these figures according to the report of the United States Geological Survey issued June 29th, comparing with 83,351,191 barrels in 1912, valued at \$67,461,513.

Pennsylvania takes the lead with a production of 28,701,845 barrels; Indiana ranks second with 10,872,574 barrels and California third, with 6,159,182 barrels.

You can't hire loyalty; you have got to deserve it.—Ex.

Many are on the road to success—traveling the wrong way.

Bell Phone, Spruce 6612 Keystone Phone, Race 2799

The Philadelphia Real Estate Record and BUILDER'S GUIDE

PUBLISHED WEEKLY

OFFICES, PERRY BUILDING (Suite 824-825)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

SUBSCRIPTION RATES

To all points in United States \$5.00 a year
To all points in Canada 5.50 a year
To all points in Europe 5.50 a year

ALL SUBSCRIPTIONS PAYABLE IN ADVANCE
Subscriptions not discontinued at expiration
unless so ordered

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W. S. Harvey, 2nd. President
Joseph M. DeLone Vice-President
Louis S. DeLone Secretary and Treasurer

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Irving Dillon Editor

PHILADELPHIA, PA., AUGUST 19, 1914.

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Editorial Comment

Building operations throughout the United States continue to show about normal expenditure, despite the talk heard now and then regarding the "tightness" of the money market and the imminency of that long-predicted "slump." According to figures collected from 141 cities between the Atlantic and Pacific Oceans, the Gulf of Mexico, the Rio Grande and the Canadian line, by Bradstreet's, there has been expended on new construction since the 1st of January the enormous total of \$514,670,399. While returns covering building expenditure during July do not materially alter the showing recently reported, pointing to a decrease from June, these figures are in every sense encouraging and indicative of healthy conditions, showing as they do a considerable gain over the month of July of last year.

The exact figures from 141 cities show for July a grand total of expenditure for new construction of \$81,024,338, as against \$83,375,396 in June and \$76,186,832 for July a year ago.

This amounts to a decrease of 2.8 per cent. from June, but a gain of 6.3 per cent. over July, 1913, with 88 out of 141 cities showing increases over the returns for July a year ago.

June showed a gain over the same month in 1913 of 3 per cent. and March a gain of 2.6 per cent. Three months of the first seven of 1914 have therefore registered gains over the same period during 1913.

The record of building expenditures at leading American cities monthly, quarterly and yearly from January, 1912, down to and including July, 1914, shows the ebb and flow in the building industry in the past thirty-one months as follows:

	1913.	1912.
January, 145 cities..	\$54,340,563	\$48,692,024
February, 145 cities.	61,141,275	51,494,295
March, 143 cities....	81,220,557	79,409,845
First quarter	\$196,702,395	\$179,596,164
April, 145 cities....	\$96,918,246	\$103,189,722
May 146 cities....	88,706,252	95,008,769
June, 146 cities....	80,859,953	96,958,920
Second quarter....	\$266,484,451	\$295,157,411
Six months	\$463,186,846	\$474,753,575
July, 145 cities....	\$75,501,375	\$87,580,278
August, 146 cities...	63,720,880	83,462,183
September, 143 cities	76,720,050	68,680,476
Third quarter	\$215,942,305	\$223,722,537
Nine months	\$679,129,151	\$714,470,512
October, 144 cities..	\$63,035,385	\$73,128,886

November, 145 cities	50,405,703	71,176,911
December, 146 cities.	67,409,818	72,180,455

Fourth quarter...	\$180,847,906	\$216,486,252
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Twelve months...	\$859,977,057	\$930,962,764
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	1914.	1913.
January, 146 cities..	\$45,999,862	\$55,514,979
February, 148 cities.	51,376,112	62,784,999
March, 150 cities....	85,610,997	83,388,638

First quarter	\$181,986,971	\$201,688,616
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April, 150 cities....	\$83,364,426	\$97,405,899
May, 146 cities....	82,761,751	86,809,963
June, 150 cities....	85,532,913	82,999,953

Second quarter....	\$251,659,090	\$267,215,847
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Six months	\$433,646,061	\$468,904,463
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July, 141 cities....	\$81,024,338	\$76,186,832
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* * *

To show that much of the gossip concerning a tight money market, a falling off in the demand for big building, a slump in building expenditure and other variants played on by the pessimistic element is sheer nonsense, one has only to consider New York City. New York City is financially the capital of the United States. It is the American money center. If timidity existed anywhere, it would show itself first of all in New York City. Let us quote a little side light on this phase of business conditions from that excellent newspaper, the New York "Sun."

"If the first six months of 1914 does not equal or surpass in big deals the corresponding period of any since the panic of 1907, it is because of the troubles in Europe, which have tightened the strings of the money bags of the city so that it is impossible to negotiate deals of any magnitude," remarks the "Sun." "Several transactions of considerable size have been at the closing point for several days. To close them requires assurance of large sums of money as new buildings are erected. No assurance has been given, and principals are of the opinion that nothing will be done until it is understood what effect the struggle will have on conditions on this side of the ocean. This means the end of big deals for a while. But for this the first half of 1914 might have held the record for sensational business.

"In the hue and cry of hard times that have been echoed through the market people have overlooked the fact that many big transactions have been negotiated since the close of the old year. Scarcity of figures makes it impossible to compute the amount of money involved in the larger deals of the year, those which represent an investment of upward of \$500,000. It is known, however,

that the purchase of the block front on the west side of Broadway from Thirty-fifth to Thirty-sixth street and its improvement will mean an investment of \$6,000,000. In other words, more than half the treasure which the Kronprinzessin Cecilie tried to carry over the ocean to fill the war chests of Europe would have been required in this deal alone.

"It is only by such comparisons that one appreciated the magnitude of New York's real estate operations. This has not been a busy year, yet transactions are being consummated which required enough millions to finance a small war. The sale of the block front on the west side of Broadway from Thirty-fifth to Thirty-sixth street, the site of the old Herald Square Theatre, was the largest transaction put through since January. The property is one of the most valuable in the city. Being part of what is known from here to Hongkong as the 'White Way,' it is not difficult for one to imagine what a whole block front of the 'White Way' would cost. On top of that place the cost of the structure that will be required to bring a return on the millions that have been put into the site alone. The total will astonish many financiers who think Wall street the only place where big sums are handled. It will surprise real estate men also, especially those who have decided that the market is on the eve of a panic.

"A building many stories high will be erected on the block. Whether it will be a loft building or a building which a department store might be able to utilize has not yet been learned. Rumors have it that Marshall Field & Co., of Chicago, will occupy the building, which, if correct, will increase the size of this deal many more millions."

* * *

Not much sign of hard times about that, is there? Psychological depressions may do for campaign purposes. They don't go down with the average hard-headed man of business. What the European war will do in the way of affecting the American money market remains to be seen. Practically there exists no reason why American conditions should be detrimentally affected by it in the least. We are not embroiled in the conflict and not likely to be. But—as capital is likely to reflect—all things are possible, even the unexpected. It is this element of uncertainty that is likely to cause such stringency as may be felt here as a result of the European inbroglio. The plainer President Wilson can make it appear that we are not to be drawn into the affair, whether by sentiment or interest, the sooner we shall witness a return to normal optimistic conditions. Business and war scares seldom mix.

* * *

A New York journalist discussed the other day the modern disposition to live in the air.

"Announcement is made that the principal owner of New York's greatest skyscraper has arranged to live near the top of the lofty structure," writes this authority. "To thousands who are attracted by the architecture of the building the idea of living in it will

seem a novel one. Older New Yorkers, however, know that the scheme is not an innovation of the present day.

"At the intersection of Broadway and Thirty-fourth and Sixth avenue on top of a bank building a Congressman for many years lived in an elevated bungalow. At night he was the only human being on the premises. During the summer months he would sit out on the roof in cool attire, smoking contentedly as he gazed up Broadway.

"He declared that there never was so interesting a sight as the great thoroughfare about 3 o'clock in the morning, when all was still. He had had a small roof addition constructed, divided into two living rooms and a bath room. In order to have the addition made he had all sorts of red tape to overcome with the Building Department, but he finally won out, and on his birthday used to entertain a few close friends.

"I'd rather sit out on my roof at night and view Broadway from on high than live in the best house in town," was his contention.

"Some of the tall apartment houses along Riverside Drive have roof gardens. Up fifteen or sixteen stories a balustrade is constructed so that children may be safe, and plants and vines are set out. A large number of wireless plants have been installed, and on two of the larger flats telescopes have been erected.

"The superintendents or janitors of many of the big office buildings spend many of the summer nights on the roofs of the tall structures. Below the City Hall after the business hours are over the city takes on a new phase of life and color. In many of the lesser office buildings nearer the Battery 'lawn parties' are frequently given after the cleaning of the building is completed. This means that a circle of close friends are invited to the roof.

"Refreshments are served, accompanied by music—perhaps only the graphophone, but still musical entertainment. The East River bridges, all lit up, the steamboats plying the bay and the Palisades of the Hudson all form a pleasant view. There is no risk of disturbing neighbors with dancing or singing, for there's no one else in the building but the roof guests. Up so many stories nearer the stars, laughter, song and dancing cannot be heard in the street.

"Within the last four or five years there has been a movement on foot to give an impetus to tree dwelling. In some instances summer campers have constructed small platforms among the branches of larger trees. Last season, in the interstate park, a camper built a platform between two adjacent trees with a roof of canvas to shelter it from the rain. There he slept all summer and was sorry when the autumn winds drove him from his perch."

* * *

Everybody knows how very delightful the hotel roof garden is on a sweltering summer night. If the roof garden is so attractive as a place to drink and lunch and listen to the band, why not as a place to sleep? To the

man who wants to get away from the noise and excitement of city life, we know of no better asylum than a cosy flat close to the roof of a twenty-story skyscraper—that is, provided, of course, the elevators run all night. Getting to bed after a night with the boys might otherwise prove inconvenient, to say the least.

* * *

A fire-prevention exhibit is to be held in the near future in Philadelphia's new Convention Hall. The Municipal Research Bureau comments sarcastically on the folly of holding a fire-prevention show in a building that is itself the most notorious fire trap in all Philadelphia.

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers 'stick' year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

FASTER SYSTEM

MAXIMUM AT MINIMUM
EFFICIENCY COST

ROOFING AND WATER PROOFING

SEND FOR BOOKLET

BENJAMIN FOSTER COMPANY
22nd & SEDGLEY AVE.
PHILADELPHIA PENNSYLVANIA.

ELECTRICITY

should be provided for in every building you erect, for now-a-days it is hard to rent or sell a house, store or building unless it is wired for electric service.

We will be very glad to have you take advantage of our facilities for planning the lighting equipment of new buildings with due regard to the highest efficiency and greatest economy.



ESSAY ON FIREPROOF CONSTRUCTION WITH CONCRETE WINS ADVERTISING PRIZE.

J. P. Beck, Publicity Manager of the Universal Portland Cement Company, was awarded the \$1,000.00 first prize for the best constructive and suggestive essay on advertising by the Awards Committee of the Associated Advertising Clubs of America (now of the world) at the Toronto Convention.

Mr. Beck's essay covered a hypothetical campaign for fireproof construction with concrete, and dealt with the tremendous annual fire loss and annual fire tax, and the relief offered from that loss and taxation by safer and saner construction with concrete.

Mr. Beck's familiarity with the various phases of the cement industry and his careful investigation of fireproof construction formed an excellent basis for his effort. This knowledge combined with his wide experience with common-sense advertising, led the judges, Professor Paul T. Cherington, of Harvard University; John Renfrew, Los Angeles, Ca., and A. G. Newmeyer, New Orleans, La., to pronounce his essay the best of the thousands submitted.

Mr. Beck has been associated with the Universal Portland Cement Company, as Publicity Manager, for a number of years. He is widely known in the cement industry as General Manager of the Cement Products Exhibition Company, under whose auspices the annual Cement Shows are held. Mr. Beck was elected Secretary and Treasurer of the first National Conference on Crete Road Building, which was held at the Auditorium Hotel last February. He has been closely in touch with all the great movements of the cement industry and possibly no man in the country is better qualified than he to write on the subject he chose.

THE EFFICIENT MANAGEMENT

How Waste May Be Eliminated and the Best Results Be Achieved in the Operation of the Various Departments of a Plant

The efficient manager has one object constantly before him—the elimination of waste. He realizes that every bit of material in his place can be used at 100 per cent. efficiency or less; that every bit of energy that he pays for can be used at 100 per cent. efficiency or less; and that time can be used in the same way.

He knows that things do not happen; that there is a cause for every effect.

He knows also that men can be taught, for he is teaching them. He knows that stenographers in an office can be taught accuracy, speed, English, or how to write a letter. He takes from his department manager the time-wasting job of acting as primary school teacher to his stenographers.

He knows that foremen should simply supervise, they should not be expected to teach men the best ways of doing work. He knows that men vary in capacity, but he knows also that men learn to do better work at twenty-five than they did when they started as apprentices; that the best men have a certain way of doing things that can be taught to others, and therefore a plant can be taught how to increase production. It is a question of analysis, planning and executing. Therefore he goes at the proposition of raising efficiencies in a definite, concrete, tangible way, something like this:

1. He makes time studies of the work.
2. He places these studies in the hands of trained thinkers and scientific men who plan the work and fit the schedules.
3. He establishes the idea of functional foremanship.
4. He makes improvements in shop methods necessary to get the greatest possible product from the worker.
5. He puts a wage system at work that will place a premium upon a man who exercises the greatest efficiency. A big problem? Of course it is, but it must be solved as nearly as may be, must it not? (Its bigness does not affect its pressing call for a solution.)

The efficient manager, after analysis, adopts a plan starting with the Taylor system, or the Emerson system, or any one of many which all come under the general term of scientific management. He starts from somewhere to go somewhere in his management. Suppose he decides to start with the Emerson system. He tests his present management against the twelve Principles of Efficiency as Mr. Emerson calls them.

1. Definite Plans and Ideals.
2. Supernal Common Sense.
3. Discipline.
4. Competent Guidance.
5. The Fair Deal.

6. Despatching.
7. Reliable Immediate and Adequate Records.
8. Determination of Standards.
9. Standard Practice Instructions.
10. Standardized Conditions.
11. Standardized Operations.
12. Efficiency Reward.

While this is not a treatise on efficiency but on cost-keeping efficiency, intended to show how to eliminate the waste of time, work, thought, material (all of which spell m-o-n-e-y in business) in the handling of costs, yet it is necessary to explain the philosophy of efficiency if we are to handle costs efficiently.

No manager can escape the necessity for knowing the value of what he does when it comes to costs any more than he can of any other part of his work.

"Increase the net," is the cry.

This manager realizes that all work in a factory, in an office, goes by dependent sequence. No man's work stands alone.

The other day a manufacturer was asked what he thought his efficiency was in different departments. He said that, "He thought that his efficiency was 75 per cent. at least," and he forgot the law of dependent sequence. If the raw stock department was 75 per cent. efficient, and the department to which it first went 95 per cent. efficient and the next two were each 75 per cent. efficient at the end of the fourth operation, the end result would be only 40.1 per cent. efficient. If each of the four departments were 80 per cent. efficient, the end result would be 41 per cent. efficient.

If one department were 75 per cent. efficient and another department were 125 per cent. efficient, the end efficiency would only be 93.75 per cent. efficient. The efficiency manager, therefore asks of the cost department such records as will assist in the establishment of a complete record of the efficiency and of how it has cost to gain the amount of efficiency that has been attained.

Values must be established as well as costs, and for this purpose we must have every order that goes through a plant, every function of department standardized, establishing the best as a standard of value, by which to judge our efficiency.

Out of that will come the best—

1. Rate of pay for each man or woman.
2. Number of people to be employed in doing a particular work.
3. Kind of men for each kind of work.
4. Standard time for the operation.

These standards should be indicated on the same records by which the system tells the actual things that were done in the work. In other words, it should show standards as well as performance on each record.

If the comptroller is necessary to show where money goes, then the efficiency manager is necessary to show what is obtained for the money. The cost accountant should be concerned principally with arranging his systems of cost-keeping so that reliable, immediate, and adequate records may be kept of the value of the commodities received for the money invested.

The same record should show:

(a) The comptroller or auditor where the money goes.

(b) The manager where standards of value have been realized, and where losses are occurring in—

1. Time.
2. Labor.
3. Material.

In the past the cost accountant has too frequently been merely a man of figures, having little or no conception of what the figures really meant. He was essentially a book-keeper who didn't know the significance of the things he was handling, and he was only concerned with totals, averages, percentages. So long as he secured his balance, he was satisfied with his results. He knew of no standards for comparing with values.

Balance sheets can be veritable mines of misinformation. Paper profits have misled many a manager.

A plant can be made to show fine profits on the balance sheets for a time. Efficiency charts would show up the starvation at a glance.

Before the cost accountant can become efficient, the management must become efficient. If the management is not efficient, the cost work will not be organized, functionalized, so that it can reflect truly, adequately and completely the real value of the business performance. Therefore, the cost accounting has to reflect what is actually being done. No matter how efficient the cost accountant may be, he cannot make an inefficient plant, or an inefficient organization, efficient. He can reflect only what an organization is doing, showing blanks for those kinds of records which the management handling the business does not permit him to make.

On the other hand, no matter how efficient may be the plan or organization, no matter how efficient may be the individual member of the organization, if the cost accounting records are not efficiency records, there will never be any adequate information placed before the comptroller, or the general manager, that will give them an opportunity to accurately gauge, in the first place, what has been received for the money, and in the second place, where inefficiencies may be eradicated.

What is the real difference between the rule-of-thumb manager and the systematic manager?

The former guesses at what happened and the latter knows what happened. Neither necessarily knows what the value of the happening really is—the latter knows what it cost, the former can't be sure, but he can pay his bills—sometimes.

The difference between the systematic man-

ager and the efficient manager is fundamental. The former occupies his time in writing history. He is thinking of yesterday; he is always at least one day behind the work; generally he is from a week to a month behind, and frequently more.

The efficient manager is writing prophecies. He is scientifically determining what is going to happen the day after to-morrow. He is systematic, too, but his system is projected into the future. He does not care what happened last week. He is never later than to-day. He was preparing for to-day six months ago.

Step into a great business—get behind the scenes a moment, peer into the laboratories. There are unique furnaces for steel making, there are schools for man training, there are machines that will not be placed on the market for five years—there are careful analysis of markets to be developed two years from now.

The researches are being made—men with note books and open ears and eyes are traveling—engineers are experimenting—all preparing for to-morrow.

When the day comes these managers go ahead methodically developing their day-before-yesterday plans, and the game of doing business pays for the prophetic vision. As battles are not fought under the inspiration of the moment, "so the efficient manager never waits for the fighting. He always forces it."

That is the difference between the various types of managers—the difference between their business—the difference between their cost systems. It appears in the net—E. St. Elmo Lewis in "American Industries."

THE PERFECT SPECIFICATION.

That there is a lawsuit in every building contract (at the pleasure of the parties concerned) is an accepted axiom; hence, the contract is a document that is usually drawn up with considerable care and legal minds are not infrequently requisitioned in its preparation. When it comes to the specification, however, laxity is more honored in the observance than in the breach. The clauses are strung together one below the other, with but little regard to what has gone before or what is to follow. Repetition and tautology become wearisome, while an infinity of unnecessary detail prolong the length of the document beyond the bounds of necessity. The fact is only too often overlooked that the specification is as much a legal document as the contract; indeed it forms, with the plans—and for the matter of that with the correspondence that ensues—a part of the contract, and the two must stand or fall together. Specification writing must be regarded as an important branch of the work of the engineer and the architect, and it is difficult to understand how the lamely-worded, halting, ungrammatical documents that one only too often sees can come from the pens of men whose calling presupposes the receipt of a fairly advanced education.

Clearness, brevity and consistency are the three things to aim at in writing a specification. Lengthy sentences of necessity become involved, and the snappiness of modern journalism may be followed with advantage. Reiteration of descriptions of similar work and materials does not, as is commonly thought, add strength to the document; and, too, there is ever the danger of dissimilar clauses on similar matters creeping in, to the confusion of all parties concerned. Tautology is to be avoided if possible, but true literary excellence is not to be attained and an expressive word or phrase had better be used over and over again if to ring the changes on it would mean any danger of confusion of ideas. A general clause to the effect that everything shall be done in the best and most workman-like manner will save an infinity of that needless description of working processes which, to use the words of an authority on the subject, is often carried "to the verge of absurdity." Words such as "proper" and "sufficient" have practically no meaning at all, and the writer should avoid them by stating clearly and concisely what is proper and sufficient. Small detail sketches may be introduced in the margin with advantage, not necessarily as saving description, but as helping to elucidate it; but even these may be overdone and "carried to the verge of absurdity" unless the writer places due restraint upon himself. "The description in specifications of workmanship and material of the highest class in positions which any practical builder knows to be unreasonable and unlikely to be insisted on," says the authority already quoted, "leads to a general system of discounting the written requirements by the experienced estimator, who tenders accordingly, and at a much lower rate than his deluded competitors, who weakly suppose that the specification means what it says." To sum the matter up: If the specification drafter clearly understands what he is writing about, says exactly what he means and not a word more, clearness, brevity and consistency will have been attained.

Many books have been published giving complete specifications or specimen specification clauses for both building and engineering works. Used with judgment such books may prove of the greatest service; but there is ever the danger if irresponsible consultation and the extraction of clauses which may, when strung together and read as a single document, have all the bad features that have been referred to above. Stock clauses to fit the requirements of every class of work cannot be drafted, and the architect or engineer who dabbles in such things may court serious trouble with his clients. Every clause must have precision of application, for incertitude is fatal. The wide tendering of which so much is heard is due largely to the atmosphere of uncertainty which attaches to many specifications. Two men may read a badly framed clause in two different ways, three men in three different ways. Make the specifications positive, avoid the "or equal" as far as possible, for who is to be the judge of the quality of the "equal to" article?

DO YOU LABEL YOUR WORK?

There is nothing more dignified or elegant than our large Weatherproof Fiber Card-board Signs. More serviceable than iron, wood or cloth. Packed in a box—printed—ready for displaying.

2 x 3-Ft. SIGNS 12 CENTS EACH

\$12.00 per 100. Check with the order. Other sizes 1½ x 2 ft. to 3 x 4 ft. proportionate prices. Send for an illustrated folder.

Independent Printing Companies of U. S.
McLachlen Bank Building, Washington, D. C.

WHEN AND HOW TO PAINT.

Extracts from Paper Read at Convention of Master Painters at Pittsburgh, Pa.

"There is some difference of opinion among master painters, as to the best season of the year to do exterior painting, some advocating spring, other autumn. I personally prefer the autumn, not because I have any particular love for flies, black gnats, sand flies, mosquitoes, white frosts, etc. It is because as a rule, we have more settled weather, coupled with the fact that paint dries best in cool, clear weather. The drawing and absorbing influence of a strong sun is eliminated, permitting the paint to dry and harden by natural means.

"The average good job of painting done in October or November will present better protection, better wear and look better, the following August, than the average job in that month painted in June previous.

"Spring being the 'cleaning up time,' all nature coming up and out, clothed in freshness and beauty, and of course at this time the good house wife's demands are irresistible, and we are found taking chances between showers by day and dew by night, dust storms, etc., forgetting all about the after effect of sun and heat, we sometimes being almost distracted in doing what we can do to beautify and pacify.

"It is, I believe, generally accepted that mid-summer weather is, as a rule, not suitable for best results in exterior painting, by reason of its many deteriorating influences on the paint coatings as well as the paint in the pot. Seventy-five per cent. of the virtue in a good paint consists of the man who applies it. He must have discerning ability and be able to read the signs of conditions, let them be surface or climatic. Many an otherwise good job and paint has been ruined by an indifferent painter, also by the master not giving proper supervision to the work, leaving it wholly to the judgment of others, and notwithstanding the fact that his best business asset, a good reputation, is being dissipated. There are but few sights, at least to the true painter, more beautiful than a well-painted and finished house, workmanship, paint and colors in tune with the harmony of the structure, 'designed in beauty and built in truth.' Who would debase the royal divinity of true labor?

"It is necessary to have a heart understanding of vehicles and their requirements, also a pigment solidity and permanency. As

you know, paint is composed of vehicle and pigments.

"One of the essentials to the life of paint is that of a drier, and its proper use. In a sentence, know your drier, then use as little of it as possible. Remember that an exterior paint, made from pure, well settled linseed oil and turpentine, and applied under proper conditions, draws largely from the atmosphere natural drying elements. Cheap 'Japan Driers' are the vicious enemy of an otherwise good paint, likewise an excess of good drier.

"In this connection regarding the use of benzole, I would recommend in the painting of cypress and southern yellow pine, that the vehicle in the priming coat, and priming coat only, should be 40 per cent. of 160 degree benzole, 10 per cent. pure spirits of turpentine and 50 per cent. raw linseed oil. The character of these woods is such as will not permit of the penetration of paint made by the usual vehicle practice. With the turpentine and the addition of benzole, which is one of the greatest penetrating solvents of rosin, gums and grease known, the oil and pigment, when well brushed out, are worked into the wood and there find a lodgement.

"I have no hesitancy in saying that all new woodwork to be thoroughly protected should receive four coats of paint, thereby erecting a substantial surface for protection, then with its solidity and purity of color it cannot fail but be a masterpiece for permanency and beauty. To properly distribute these four coats, I would recommend that the first or primary coat be applied as soon as the structure is erected, followed by second coat. The third and fourth coats should be put on close together at the completion of residence or building. When the volume is overloaded with pigment and the painter is called upon to apply two coats by one application, that is not painting, it is plastering with paint pigment, and results will be most damaging.

"In regard to the proper application of paint on new wood, I want to dwell particularly on the first or priming coat, which is of such vast importance to the success of subsequent coatings. Is it not the 'footing course' which all true architects and builders are so earnest in their efforts to have just right, realizing as they do that the strength of the entire fabric rests upon its bearing and solidity?"

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And all the weird doodads my grandmother knew.

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The cobbles hand-painted, the seashells abused,

The bustle and hoopskirt, the three-storied bonnet,

And, oh, the mustache cup my grandfather used.

The china mustache cup,

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The magnificent mustache cup my grandfather used.

When plush was in vogue and oil painting "artistic,"

When the velveteen rolling-pin gay was "genteel,"

When the mirrors were painted with hues anarchistic

And the last word in art was the fringe of chenille,

Oh, the red ribboned coal scuttle grandma thought splendid,

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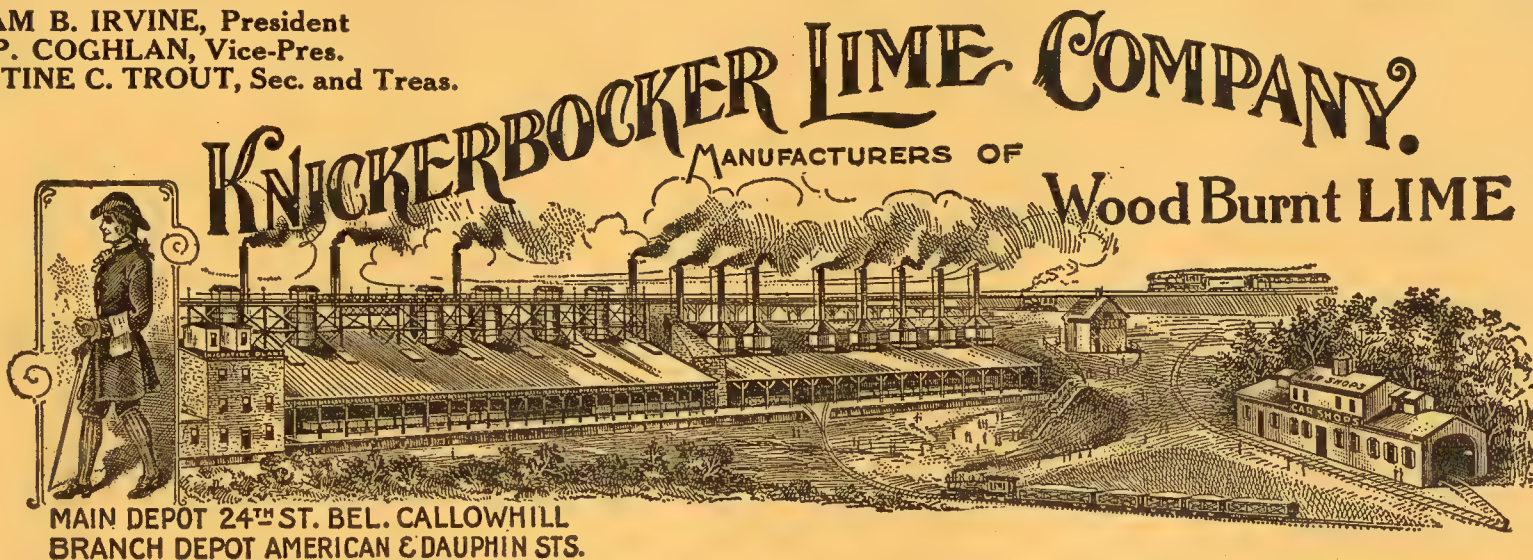
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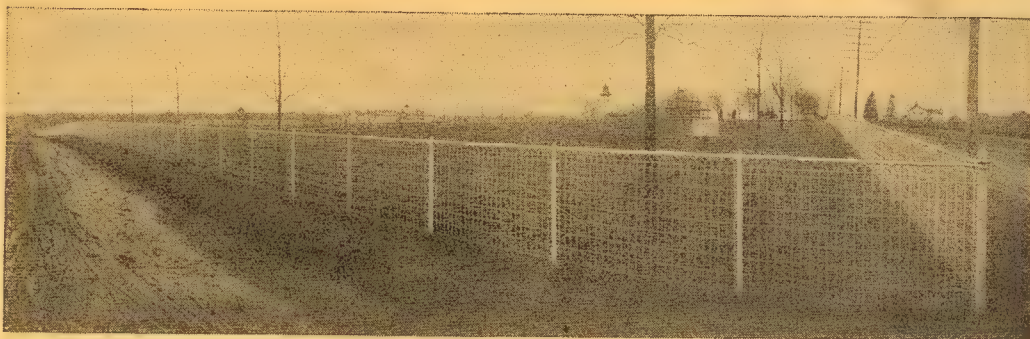
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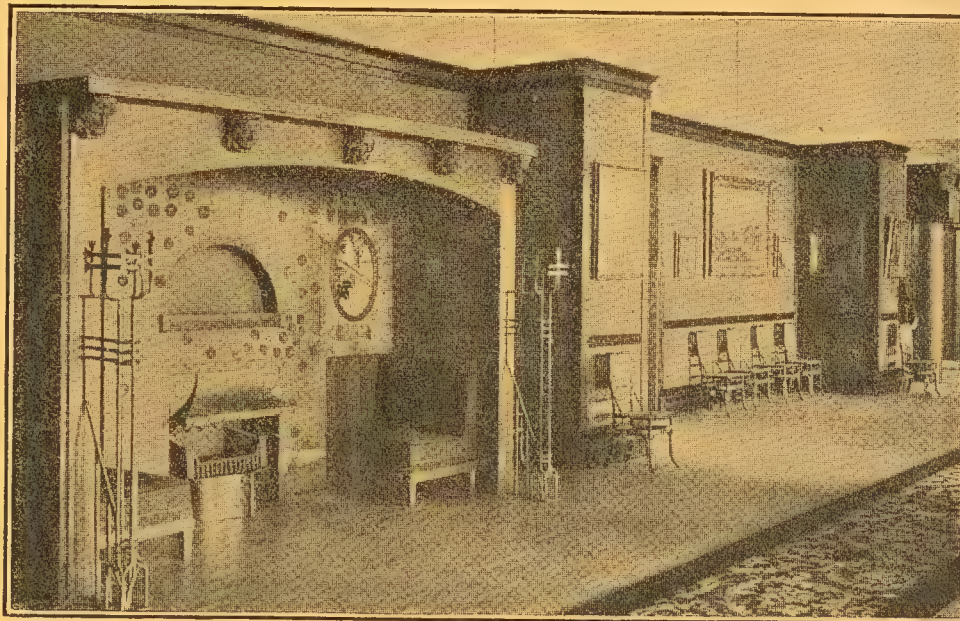
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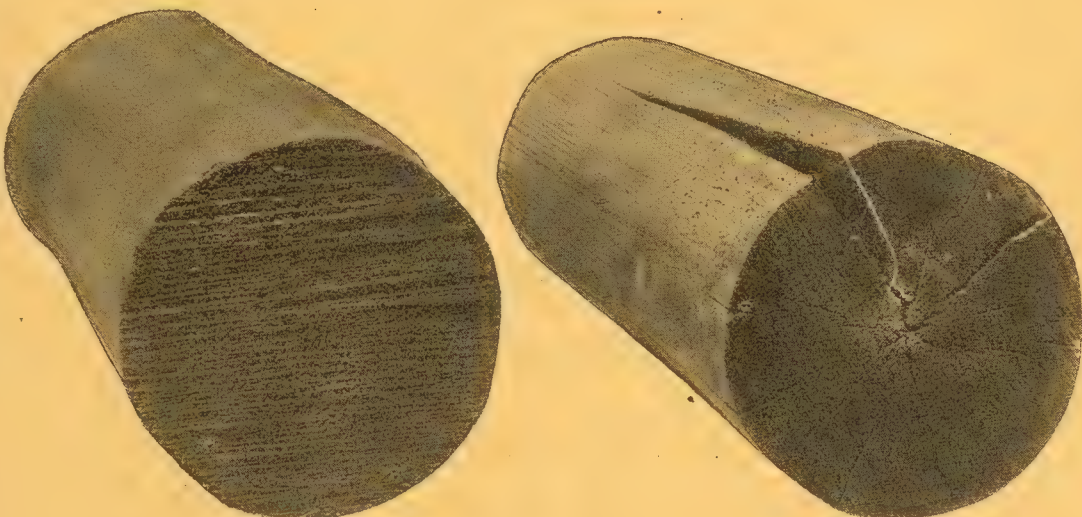
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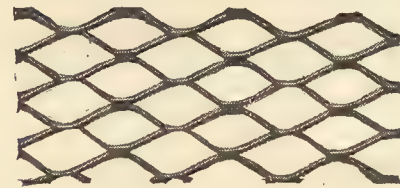
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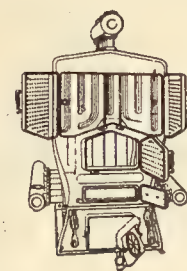
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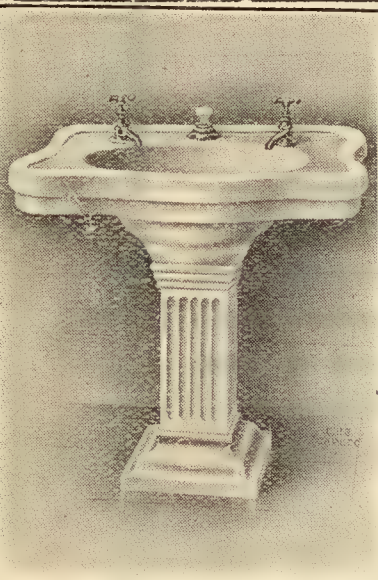


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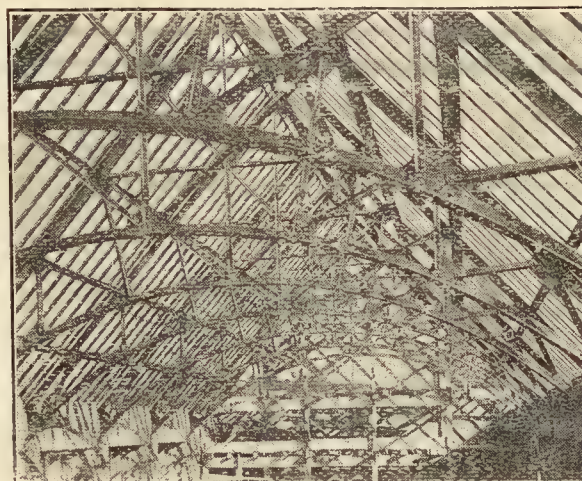
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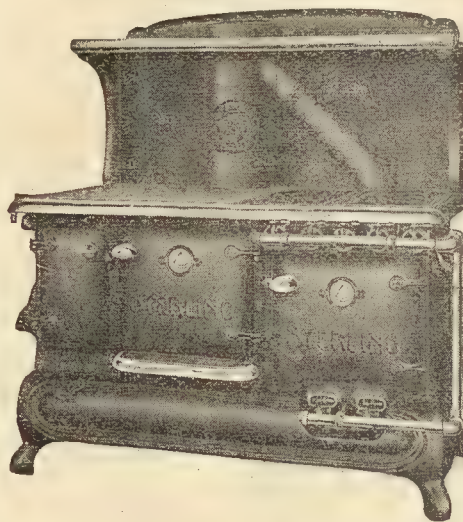
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Vol. XXIX., No. 34.

PHILADELPHIA, WEDNESDAY, AUGUST 26, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Picture Theatre, Front street and Allegheny avenue, Philadelphia. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Jacob A. Ridgway, Broad street and Lehigh avenue, Philadelphia. Brick and terra cotta, 1 story, 60x114 feet, slag roof, metal lath (heating and lighting reserved). Architect has received bids.

Dye House (add.), Womrath street and Torresdale avenue, Philadelphia. Architect, private plans. Owner, Joseph Schmidt, care of C. E. Outterson, 4509 Frankford avenue, Philadelphia. Brick, 2 stories, slag roof. Owner has received bids.

Smoke Gathering Plant, Ninth and Green streets, Philadelphia. Architect, William Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Co., Twelfth and Market streets, Philadelphia. Brick, steel and concrete, 1 story, 108x210 feet, slag roof, metal lath, waterproofing, metal sash and frames. Owners taking bids due August 26th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Jacob Myers' Sons Co., Witherspoon Building; J. E. & A. L. Pennock, Land Title Building; Armstrong & Latta, Land Title Building; James G. Doak & Co., Crozer Building; Stacy Reeves & Sons, 2011 Market street; Charles McCaul & Co., 1713 Sansom street; Charles Gilpin, Harrison Building; W. W. Lindsay, Harrison Building; Brown-King Construction Co., Harrison Building; F. A. Havens & Co., 845 North Nineteenth street; Irwin & Leighton, 126 North Twelfth street; F. W. Van Loon, Denckla Building; A. L. Carhart, Hale Building; Enos L. Seeds, 6314 Wissahickon avenue; Harrison C. Rea Co., 1027 Wood street; Fidelity Construction Co., Heed Building, all of Philadelphia.

Bakery and Dwelling, Fifth and Lombard streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x62 feet, slag roof, hot water heating, electric lighting, metal lath, waterproofing, two bake ovens. Plans in progress.

Store and Residence (alt. and add.), 3234 Kensington avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadel-

phia. Owner, name withheld. Brick, 3 stories, 16x65 feet, slag roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Garage, Willow Grove and Germantown avenues, Philadelphia. Architect, S. A. Stoneback, 2301 North College avenue, Philadelphia. Owner, Mrs. A. R. Snyder, 7842 Germantown avenue, Germantown. Stone, 1 story, 55x80 feet, slag roof, hot water heating, electric lighting, dampproofing. Architect taking revised bids due August 27th. The following are figuring: Burd P. Evans & Co., Thirteenth and Wallace streets; E. E. Hollenback, Fifteenth and Race streets; Stacy Reeves & Sons, 2011 Market street; Pringle Borthwick, 8018 Germantown avenue; Thomas C. Trafford, 1613 Sansom street; James B. Flounders, 1329 Arch street; J. Richard Jackson, Perry Building, all of Philadelphia.

Factory, Eighty-fourth street and Eastwick avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Bldg., Phila. Owner, Eastern Lamp Co., 227 Gaskill street, Philadelphia. Brick, 1 story, 40x125 feet, slag roof, steam heating, electric lighting. Plans in progress.

Factory (add.), 406 East Rittenhouse st., Germantown. Architects, private plans. Owners, American Rubber Reclaiming Co., on premises. Brick, 2 stories, 32x60 feet, slag roof, electric lighting. Builder, Stewart Bros., 2526 North Orkney street, Philadelphia, are taking sub-bids.

Residence (alt. and add.), 3927 Locust st., Philadelphia. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, Harold Goodwin, on premises. Brick and plaster, 3 stories, 16x38 feet, tin roof, vapor vacuum heating, electric lighting, tile floors, canvas roof. Architects have received bids.

Warehouse, 131-133 North Water street, Philadelphia. Architect, Harry Clark, 5112 Springfield avenue, Philadelphia. Owner, James McCrea & Bro., 1313 Arch street, Philadelphia. Brick and concrete, 4 stories, 40x60 feet, slag roof, steam heating, electric and gas lighting. Owners taking bids due August 28th. Charles Gilpin, Harrison Building; William R. Dougherty, 1610 Sansom street; A. Whitehead, 1624 Latimer street; Harrison

C. Rea, 1027 Wood street, all of Philadelphia.

Residence, Ridge and Wigard avenues, Roxborough, Philadelphia. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, William Galt, Roxborough, Philadelphia. Stone, 2½ stories, 40x42 feet, slate roof (heating and lighting and uooring reserved). Revised plans in progress.

Residence (alt. and add.), 1931 North Thirty-third street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Henry Sack, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting, oak floors. Architects have received bids.

Hospital (alt. and add.), Frankford avenue and Wakefield street, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building. Owner, Frankford Hospital, on premises. Brick, 4 stories, slag roof (heating and lighting reserved), metal lath (elevators reserved). Architects have received revised bids.

Hospital (alt. and add.), Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, City of Philadelphia, Department of Health and Charities, care Dr. S. G. Dixon, 1900 Race street, Philadelphia. Brick and stone, 2 and 3 stories, consists of new fireproof stairways, safety treads. Owners taking bids due September 1st. George B. Clopp, 3717 Filbert street, and W. F. Rempis, Eighteenth and Filbert streets, Philadelphia, are figuring.

Apartments (alt. and add.), 1400 North Fifteenth street, Philadelphia. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Dr. Ed. Baum, Perry Building, Philadelphia. Brick, 3 stories, 20x170 feet, slag roof, steam heating, electric lighting, oak floors, metal lath. Revised plans in progress.

Hospital, Eighteenth and Fitzwater streets, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, Children's Hospital, Twenty-second and Locust streets, Philadelphia. Brick, steel and concrete, 4 stories, 45x100 feet, tile and slag roof, steam heating, electric lighting, composition floors, metal lath, waterproofing, metal sash and frames, enamel brick. Architects

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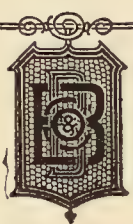
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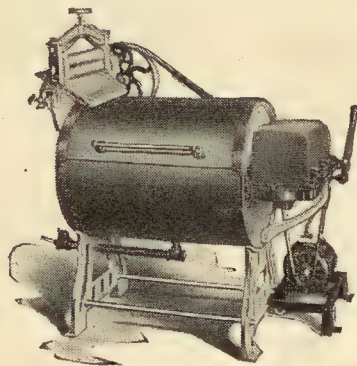
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taking bids, due September 3rd. The following are figuring: Charles Gilpin, Harrison Building; William R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; F. c. Wallace, 1210 Sansom street; Irwin & Leighton, 126 North Twelfth street; Jacob Myers & Sons Co., Witherspoon Building; Roydhouse-Arey Co., Fidelity Building; J. S. Cornell & Sons, Land Title Building, and George A. Fuller Co., Morris Building, all of Philadelphia, are figuring.

Control House, Queen lane, Germantown. Architect, private plans. Owner, City of Philadelphia, Department of Water, City Hall, Philadelphia. Brick, 1 story, 18x45 feet, slag roof (heating and lightin. reserved). Owners taking bids, due August 28th. H. E. Baton, Twelfth and Sansom streets; W. W. Anstine Co., 1214 Filbert street, and J. A. Bader Co., Heed Building, Philadelphia, are figuring.

Boiler House (alt. and add.), Belmont Pumping Station, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Water, City Hall, Philadelphia. Brick, 1 story, slag roof (heating and lighting reserved). Owners taking bids, due August 28th. W. W. Anstine Co., 1214 Filbert street; H. E. Baton, Twelfth and Sansom streets, and J. A. Bader Co., Heed Building, Philadelphia, are figuring.

Factory, Fifty-ninth and Woodland avenue, Philadelphia. Architect, Harry Parker, Drexel Building, Philadelphia. Owners, Fairmount Electric and Manufacturing Co., 2203 Pearl street, Philadelphia. Brick, 2 stories, 45x100 feet, slag roof (electric lighting and heating reserved). Owners taking revised

bids, due August 31st. A Whitehead, 1624 Latimer street, Philadelphia, is figuring.

High School, Oxford and Wakefield streets, Frankford, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owners, Board of Education, City Hall, Philadelphia. Brick, stone, fireproof, 4 stories, 200 x295 feet, slate roof, metal lath, enamel brick, safety treads, waterproofing, metal sash and frames (heating, lighting and plumbing separate bids). Owners taking bids, due September 4th. Plans may be obtained from architect upon a deposit of \$50.00. The following are figuring: Thomas Reilly, 1616 Thompson street; James G. Doak & Co., Crozer Building; Cramp & Co., Denckla Building; H. E. Baton, Twelfth and Sansom streets; Charles McCaul Co., 1713 Sansom street; Abel Bottoms & Sons, 41 South Fifteenth street; H. H. Wehmeyer, 1004 West Lehigh avenue, all of Philadelphia.

High School (enew wing), Broad and Green streets, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owners, Board of Education, City Hall, Philadelphia. Stone, 3 stories, slate and slag roof (heating and lighting reserved). Owners taking bids, due September 4th. The following are figuring: Thomas Reilly, 1616 Thompson street; James G. Doak & Co., Crozer Building; Cramp & Co., Denckla Building; H. E. Baton, Twelfth and Sansom streets; Charles McCaul Co., 1713 Sansom street; Abel Bottoms & Sons, 41 South Fifteenth street; H. H. Wehmeyer, 1004 West Lehigh avenue, all of Philadelphia.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Stores and Offices (alt.), 202 South Fifteenth street, Philadelphia, \$3,500. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Mrs. George Strawbridge, on premises. Brick, 3 stories; consists of new bulk window and interior altera-

tions, slate roof, metal lath (electric work reserved). Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Hospital (alt. and add.), Broad and Wolf streets, Philadelphia, \$4,000. Architects, Stearns & Castor, Stephen Girard Building,

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Philadelphia. Owner, Methodist Hospital, on premises. Brick, 3 stories, steam heating, electric lighting, metal lath. Contract awarded to F. E. Wallace, 1210 Sansom street, Phila.

Power House (add.), Twentieth street and Oregon avenue, Philadelphia, \$25,000. Architect, James H. Windrim, Commonwealth Building, Philadelphia. Owner, Girard Estate, Philadelphia. Brick, concrete and steel, 1 story, 67x88 feet, slate and slag roof, metal lath, waterproofing, metal sash and frames. Contract awarded to James G. Doak & Co., Crozer Building, Philadelphia.

Factory, Cottman street and Tacony road, Philadelphia, \$34,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Keystone Lantern Co., 5033 Portico street, Frankford. Brick, 4 stories, 113x68 feet, slag roof, metal lath, steel frames and sash (heating, electric work and elevator reserved). Contract awarded to J. Richard Jackson, Perry Building, Philadelphia.

Garage (alt. and add.), Germantown avenue and Coulter street, Germantown, \$5,500. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, P. McGarrigle, on premises. Brick, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to F. B. Davis, 240 South Sixteenth street, Philadelphia.

College (add.), York and Watts streets, Philadelphia. Architects, Pilcher & Tachau, 109 Lexington avenue, New York City. Owner, Gratz College, on premises. Stone and brick, 2 stories and basement, 44x50 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing. Contract awarded to Chas.

McCaul Co., 1713 Sansom street, Philadelphia.

Club House, Moyamensing avenue and Montrose street, Philadelphia, \$27,000. Architect, Charles F. Schaef, 1524 Chestnut street, Philadelphia. Owner, Lithuanian Real Estate Co., on premises. Brick and plaster, 3 stories, 66x81 feet, slag roof (heating and lighting reserved). Contract awarded to John A. Engel, 3006 North Fifth street, Philadelphia.

Residence, Cliveden street, west of Lincoln drive, Germantown, \$10,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, J. A. Seeds, 607 West Upsal street, Germantown. Stone, 2½ stories, 36x43 feet, slate roof, hot water heating, oak floors (electric work reserved). Contract awarded to Moore & Graham, 622 West Johnson street, Germantown.

High School for Girls, Broad and Snyder avenue, Philadelphia, \$700,000. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owners, Board of Education, City Hall, Philadelphia. Stone, steel and concrete, 4 stories, 212x226 feet, slate and slag roof, enamel brick, metal lath, metal sash and frames, waterproofing and dampproofing (steam heating and electric lighting separate bids). Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

School (alt. and add.) (Lunch Room), Thirteenth and Spring Garden streets. Architect, J. Horace Cook, Land Title Building, Philadelphia, Pa. Owners, Board of Education, City Hall, Philadelphia. Stone, 4 stories, metal lath, steam heating electric lighting. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

PENNSYLVANIA

Construction News

Alumni Building, Scranton, Pa., \$100,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Sisters of the Immaculate Heart of Mary, Mt. St. Mary's Seminary, Scranton, Pa. Brick, 3 stories, 100x150 feet, steam heating, electric lighting. Plans in progress.

Church (add.), Simpson, Pa., \$20,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Mary's R. C. Church, Rev. Valentine Matuszewski, Simpson, Pa. Brick and frame, 1 story, 50x120 feet, slate roof, steam heating, electric lighting. Plans in progress.

Church (add.), Simpson, Pa., \$20,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Simpson M. E. Church, Simpson, Pa. Brick and frame, 1 story, 65x75 feet, slate roof, steam heating, gas and electric lighting, tile work, waterproofing and dampproofing. Plans in progress.

Comfort Station, Scranton, Pa., \$25,000.

Architect, J. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, City of Scranton, Pa., care of B. Moses, City Hall, Scranton, Pa. Concrete, 1 story, 61x27 feet, concrete roof, steam heating, electric lighting, concrete and tile floors. Owners ready for bids.

Hospital (add.), Scranton, Pa., \$15,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, West Side Hospital, Scranton, Pa. Brick, 2 stories, slag roof, steam heating, electric lighting, composition floors, metal lath. Plans in progress.

Residence, Scranton, Pa., \$16,000. Architect, Lewis Hancock, Jr., Coal Exchange Building, Scranton, Pa. Owner, S. R. Bless, Scranton, Pa. Brick, stone trimmings, 2½ stories, 24x40 feet and 22x58 feet, tile roof, steam heating, gas and electric lighting, hardwood floors, tile work. Architect taking revised bids.

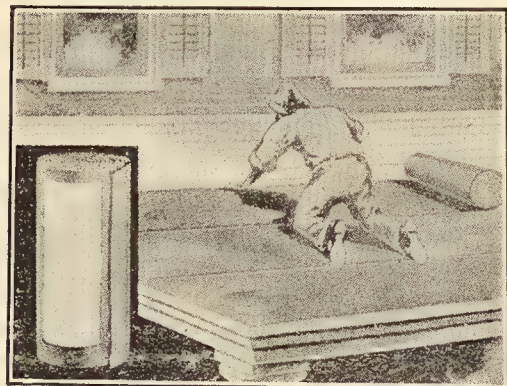
Factory (add.), Scranton, Pa., \$8,000. Architect, John J. Feeney, Coal Exchange

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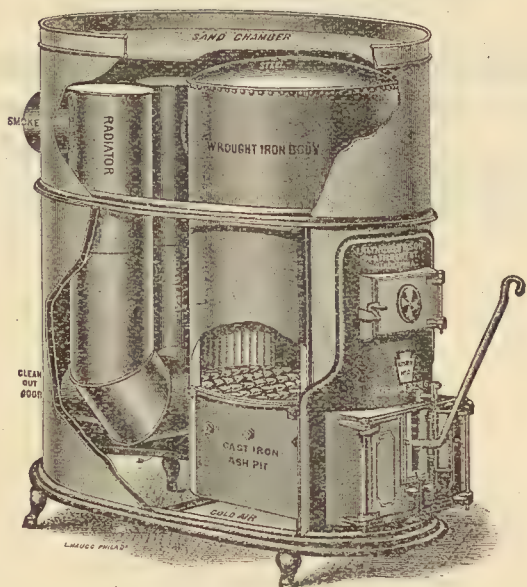
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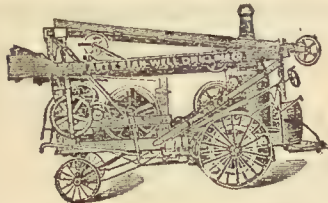
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Building, Scranton, Pa. Owner, M. F. Fadden, 1409 Mulberry street, Scranton, Pa. Brick and stucco, 2 stories, 60x55 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath, Architect has received bids.

Residence (alt. and add.), Narberth, Pa. Architect, Wesley L. Blithe, 608 Chestnut st., Philadelphia. Owner, John B. Williams, care of Curtis Publishing Co., Sixth and Walnut streets, Philadelphia. Stone and frame, 2½ stories, 40x50 feet, shingle roof, steam heating, electric lighting, tile floors. Plans in progress. Bids in ten days.

Sunday School Building, Bromall, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Marple Presbyterian Church, Bromall, Pa. Stone, 1 story, 40x50 feet, shingle roof, steam heating, electric lighting. Architects taking bids due August 26. The following are figuring: McCloskey-Bahls, Hale Building, and M. Roy Sheen, 450 North Wilton street, both of Philadelphia; Deaves & Moore, Llanerch, Pa.; E. O. Lobb, Llanerch, Pa.; W. Harry Roberts, Newtown Square, Pa.

Store and Loft Building, Scranton, Pa. \$40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, James Jordan Estate, Scranton, Pa. Tapestry brick and steel, 3½ stories, 40x177 feet, slag roof, steam heating, gas and electric lighting, tile work, metal lath. Architect has received bids.

Residence, Wilkes-Barre, Pa., \$7,500. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Israel Sperling, Kingston, Pa. Frame, 2 stories, 40x55 feet, slag roof, steam heating, gas and electric lighting. Architect taking bids.

Retaining Wall, West Pittston, Pa. Engineer, E. H. Coward, Miners' Bank Building, Pittston, Pa. Owner, Board of Education, Pittston, Pa. Concrete retaining wall at High School. Owners taking bids due August 26th.

School, Cheltenham, Pa., \$25,000. Architect, Herbert C. Wise, Franklin Bldg., Phila. Owner, Board of Education, care of J. Holden, Fox Chase, Phila. Brick, 2 stories, 65x72 feet, slag and slate roof, metal lath (heating and lighting separate bids). Owners taking bids due August 28th. F. L. Hoover & Sons, 1023 Cherry street, Philadelphia are figuring. Plans may be obtained from Architect upon a deposit of \$25.00.

Parochial School, Columbia, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, St. Joseph's R. C. Church, care of Rev. P. G. Brueggeman, Columbia, Pa. Stone and brick, 2½ stories, 90x125 feet, slate roof (heating and lighting reserved) Plans in progress.

Residence (alt. and add.), Rydal, Pa. Architect, Walter H. Thomas, 130 South Fifteenth street, Philadelphia. Owner, John Gilbert, Rydal, Pa. Stone, 2½ stories, tile roof, hot water heating, electric lighting. Architect taking bids. F. E. Wallace, 1210 Sansom street, and F. W. Allison Co., 1710 Rittenhouse street, both of Philadelphia, are figuring.

Residence and Garage, Melrose Park, Pa.

\$8,000. Architects, Neff & Thomas, Heed Building, Philadelphia. Owner, Harry Largman, Tenth and Berks streets, Philadelphia. Hollow tile and plaster, 2½ stories 30x35 feet, slate roof, hot water heating, electric lighting, oak floors (gasoline pump and storage reserved by owner). Architects taking bids due August 26th. The following are figuring: Specht & Sperry, Heed Building; John Morrow Construction Co., 308 South Twelfth st.; Smith-Hardican Co., 1606 Cherry street; Alexander Chambley, 243 South Tenth street; Pomeroy Construction Co., 1609 Ranstead st., all of Philadelphia; Fesmire & Mitchell, Glenside, Pa.; W. John Stevens, Wyncote, Pa.

Home Building, Cheyney, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Shelter for Colored Orphans, Forty-fourth and Wallace streets, Philadelphia. Consists of administration building and two dormitory buildings, hollow tile and plaster, 2 stories, 70x50 feet, dormitories (2), 70x50 feet each, slate roofs (steam heating, electric lighting, sewage disposal plant reserved). Architects taking bids due August 29th. The following are figuring: R. C. Ballinger Co., 218 North Thirteenth street; H. E. Grau Co., 1709 Sansom street; J. E. & A. L. Pennock, Land Title Building; F. L. Hoover & Sons, 1023 Cherry street; James B. Flounders, 1329 Arch street, all of Philadelphia, and Plummer E. Jefferis, Chester, Pa.

Office Building (add.), Chester, Pa. Architect, C. W. Brayer, 1133 Broadway, New York City. Owners, Broomall & Montgomery, Chester, Pa. Brick, 3 stories, 43x74 feet, slag roof, steam heating, electric lighting, tile floors. Architect has received bids.

Theatre and Building, Altoona, Pa. Architects, Sholler & Hirsh, Altoona, Pa. Owner, A. N. Notopoulos, Altoona Pa. Brick and terra cotta, 3 stories, 56x126 feet, slag roof, metal lath, waterproofing and dampproofing (heating and lighting reserved). Architect taking bids due August 29th. F. Roe Searing, Perry Building, Philadelphia, is figuring.

Residence, Lamott, Pa. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, S. S. Wilson, Lamott, Pa. Frame, 2½ stories, 16x43 feet, slag and tin roof, hot air heating, gas lighting. Architects taking bids. Specht & Sperry, Heed Building, and F. R. Hill, Oak Lane, Philadelphia, are figuring.

High School (add.), Lansdowne, Pa., \$50,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2 stories, 120x68 feet, slate roof, steam heating, gas and electric lighting, metal lath, dampproofing and waterproofing. Owners will advertise for bids August 25th. Plans may be obtained from Architects upon deposit of \$25.00.

School (add.), Ridley Park, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, School Board, John B. Partidge, Secretary, 118 Chester Pike, Ridley Park, Pa. Brick and stone, 2 stories, slate

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roof (heating, plumbing and electric work separate bids), metal lath, metal ceilings, slate blackboards. Lowest bid submitted by Pomeroy Construction Co., 1609 Ranstead st., Philadelphia, \$9,500.

Sanitarium (add.), Cresson, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, State of Pennsylvania, Department of Health and Charities, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia.

Brick, steel and concrete, 4 stories, 56x475 feet, slate and asbestos shingle roof, tile floors, metal lath, waterproofing and damp-proofing, kalamein work, elevators, lockers, safety treads, metal sash and frames (heating and lighting separate bids). Owners taking bids due September 2nd. Edw. Fay & Sons, 2 South Mole street, and J. E. & A. L. Pen-nock, Land Title Building, Philadelphia, are figuring.

PENNSYLVANIA

Contracts Awarded

Store and Apartments, Taylor, Pa., \$10,000. Architect, Louis Reisman, Dime Bank Building, Scranton, Pa. Owner, Jacob Stecker, Taylor, Pa. Brick, 2 stories, 40x80 feet (slag roof, steam heating, gas and electric lighting. Contract awarded to Taylor Lumber Co., Taylor, Pa.

Residence, Scranton, Pa., \$6,000. Architect, Albert Hartman, People's Bank Building, Scranton, Pa. Owner, Mrs. W. H. Clark, 639 Quincy avenue, Scranton, Pa. Frame, 2 stories, 28x30 feet, shingle roof, steam heating, gas and electric lighting, hardwood floors. Contract awarded to Nay Aug Lumber Co., Prescott and Ridge Row, Scranton, Pa.

School (alt. and add.), Dalton, Pa. Architect, Albert Hartman, People's Bank Building, Scranton, Pa. Owner, Board of Education. Brick and concrete, 1 story, 16x14 feet and 24x32 feet, shingle roof, electric lighting, concrete floors, slate blackboards. Contract awarded to Barrett Construction Co., Connell Building, Scranton, Pa.

Residence, Scranton, Pa., \$10,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owner, Frank X. Burke, Marion street, Scranton, Pa. Brick and stucco, 2½ stories, 30x47 feet, slate roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and dampproofing. Contract awarded to Peek Lumber Manufacturing Co., 113 East Market street, Scranton, Pa. (Work started.)

School, Jermyn, Pa., \$6,000. Architect, Guy W. Osterhout, Connell Building, Scranton, Pa. Owner, Board of Education, Jermyn, Pa. Frame, 2 stories, 32x44 feet, slate roof, steam heating, metal ceilings. Contract awarded to Holt Lumber Co., Carbondale, Pa.

Flat House, Scranton, Pa., \$12,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, M. J. O'Neill, 1212 Marion street, Scranton, Pa. Frame and stucco, 3½ stories, 40x84 feet, slag roof, steam heating, electric lighting, metal lath, metal ceilings. Contract awarded to Boland Bros., 427 Spruce street, Scranton, Pa.

Store and Flats, Jessup, Pa., \$12,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Joseph Semencelli, Jessup, Pa. Brick veneer, 2½ stories, 40x84 feet, slag roof, steam heating, electric lighting, tile work, freight elevator, metal ceilings. Contract awarded to Roberts Lumber & Realty Co., Peckville, Pa.

New Church and Sunday School Building,

Ridley Park, Pa., \$40,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, Ridley Park Presbyterian Church, Ridley Park, Pa. Stone, 2 stories, 70x120 feet, slate and slag roof, metal frames and sash (heating and electric lighting, separate bids). Contract awarded to Pomeroy Construction Co., 1609 Ranstead street, Phila.

Apartment (alt. and add.), Norristown, Pa. Architect, E. T. Boggs, 136 South Fourth st., Philadelphia. Owners, The Misses Preston, Norristown, Pa. Brick, 3 stories, gas and electric lighting, steam heating, tile work. Contract awarded to E. O. Rehrer, 703 Noble st., Norristown, Pa.

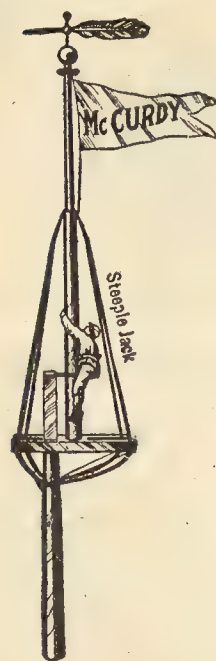
Society Building, Wilkes-Barre, Pa., \$50,000. Architect, H. B. Long & Co., Miners' Bank Building, Wilkes-Barre, Pa. Owner, Luzerne County Medical Society, Wilkes-Barre, Pa. Brick, stone and terra cotta, fireproof, 2 stories, 66x48 feet, asphalt and tile roof, fan system of heating, electric lighting, tile work, hardwood floors, metal sash and frames, metal lath, waterproofing and damp-proofing, safety treads, steel furniture, dumb waiter. Contract awarded to Shepherd Construction Co., Miners' Bank Building, Wilkes-Barre, Pa. (Work started.)

Church and Sunday School, Wilkes-Barre, Pa., \$35,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, First Presbyterian Church, Wilkes-Barre, Pa. Brick and terra cotta, 1 story, 45x108 feet, slag and slate roof, steam heating, electric lighting. Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre, Pa.

Church and Rectory, Scranton, Pa., \$40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Greek Catholic Church, Rev. Michael Cearbeck, 425 South Irving avenue, Scranton, Pa. Brick, limestone trimmings, 1 and 2½ stories, 50x125 feet and 32x40 feet, slate roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing. Contract awarded to Sijka & Caputo, Scranton, Pa.

Church, Greenwood Pa., \$32,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Mary's R. C. Church, Rev. Roman Wandlawski, Greenwood, Minooka, Pa. Brick veneer, 1 story, 54x120 feet, slate roof, steam heating, electric lighting, metal ceilings. Contract awarded to Edward Sijka, Scranton, Pa.

School (alt.), Carbondale, Pa., \$8,000. Archi-



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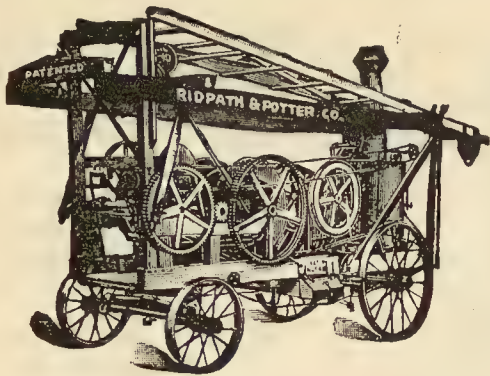
1713 Sansom Street, Philadelphia, Pa.

tect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Board of Education, Carbondale, Pa. Frame, 1 story, 32x36 feet, slate roof, electric lighting, slate blackboards. Contract awarded to P. J. Covistor, Carbondale, Pa.

Residence (int. alt.), Scranton, Pa., \$12,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, L. E. O'Brien, 1513 Jefferson avenue, Scranton, Pa. Brick, 3 stories, 40x60 feet (heating and electric work reserved by owner. Contract awarded to James Niland, 907 Beech street, Scranton, Pa.

Stores and Flats, Olyphant, Pa., \$25,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Mrs. Bridget Lawler Estate, Olyphant, Pa. Brick veneer, 2 stories, 60x100 feet, slag roof, steam heating, electric lighting. Contract awarded to Dickson Lumber Co., Scranton, Pa. (Work started.)

Church, Scranton, Pa., \$50,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Washburn Street Presbyterian Church, Scranton, Pa. Frame, terra cotta and stucco, 1 story, 80x100 feet, tile roof, steam heating, electric lighting. Contract awarded to Wash-



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587 Bourse Building

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burn-Williams Co., 119 Meridian street, Scranton, Pa.

Bath House, Scranton, Pa., \$20,000. Architect, Louis Reisman, Dime Bank Building, Scranton, Pa. Owner, Joseph Lefstiz, Scranton, Pa. Brick, 3 stories, 40x100 feet, slag roof, steam heating, gas and electric lighting, tile work, metal lath, waterproofing and dampproofing. Contract awarded to Nay Aug Lumber Co., Prescott & Ridge Row, Scranton, Pa.

Lodge Building, Scranton, Pa., \$104,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, B. P. O. E., Scranton, Pa. Brick, terra cotta and steel, 4½ stories, 50x125 feet, tile roof, steam heating, gas and electric lighting, tile work, hardwood floors, metal lath, waterproofing and damp-

proofing. Contract awarded to M. J. Ruddy, 421 Lackawanna ave., Scranton, Pa. (Work started.)

Residence, Glenside, Pa., \$6,000. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, J. W. Purner, Bourse Building, Philadelphia. Plaster, 2½ stories, shingle roof, hot water heating, electric lighting. Contract awarded to M. E. Hauser, Glenside, Pa.

Garage (alt. and add.), Cynwyd, Pa. Architect, S. Robert Ross, Narberth, Pa. Owner, William McGeorge, Jr., Cynwyd, Pa. Brick and concrete, 2 stories, tin roof, metal ceilings. Contract awarded to Mowrer Brothers, Merion, Pa.

NEW JERSEY

Construction News

Twin Residence, Trenton, N. J., \$5,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Max Litt, 59 North Clinton street, Trenton, N. J. Stucco, 2 stories, 16x30 feet each, slag roofs, electric lighting, heating undecided, metal lath. Plans in progress.

Residence, Trenton, N. J., \$7,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Max Litt, 59 North Clinton street, Trenton, N. J. Stucco, 2 stories, 40x50 feet, slag roof, heating undecided, electric lighting, metal lath. Plans in progress.

Residence, Trenton, N. J., \$10,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, 407 West State street, Trenton, N. J. Brick and stucco, 2½ stories, 30x65 feet, tile roof, heating undecided, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Twin Residence, Trenton, N. J., \$7,500. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, Joseph Lupo, Trenton, N. J. Brick, 2 stories, 26x50 feet, slate and tin roof, gas lighting, heating reserved, waterproofing. Architect ready for bids.

Infirmiry, Glen Garden, N. J., \$20,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Hollow tile and stucco, 2½ stories, 125x65 feet. Owner taking bids due September 3rd.

Dining Building (add.), Glen Garden, N. J. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Brick, concrete and stucco, 2 stories, 39x50 feet, slag roof, steam heating, electric lighting. Owner taking bids due September 3rd.

Hotel (add.), Spring Lake, N. J. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owner, New Monmouth Hotel, Spring Lake, N. J. Brick, 5 stories, slate roof, consists of a fifth-story addition (heating and lighting reserved), Architect taking

bids due August 26th. H. H. Moore, Spring Lake, N. J.; John Miller, Spring Lake, N. J.; Beckert Co., Spring Lake, N. J., and I. R. Taylor Co., Asbury Park, N. J., are figuring.

Cottages (4), Cape May, N. J. Architects, Thomas & Churchman, 130 South Fifteenth street, Philadelphia. Owner, Stockton Land Co., Cape May, N. J. Frames, 2½ stories, 28x38 feet, shingle roof, electric lighting. Architect taking bids due August 28th. Sherman Sharp, York Bros., Hiram W. Godfrey, all of Cape May, N. J., are figuring.

Dining Building, Camden, N. J. Architects, Ballinger & Perot, 1211 Arch street, Philadelphia. Owner, Victor Talking Machine Co., Camden, N. J. Brick, fireproof, 2 stories. Plans in progress. Too early for details.

Synagogue, Bridgeton, N. J., \$20,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Beth Abraham Congregation, care of M. Kohen, Bridgeton, N. J. Brick and terra cotta, 2 stories, 45x80 feet, slate roof (heating, electric work and plumbing separate bids). Architect has received bids.

Bank (remodeling), Third and Market sts., Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Security Trust Co., on premises. Consists of remodeling interior, tile and marble work, bronze and mahogany fixtures, electric lighting. Architect ready for bids.

Cow Barn, Glen Garden, N. J., \$12,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey. Stone and frame, 2 stories, slate roof, electric lighting, concrete and wood floors, metal lath. Owners taking bids, due September 3rd. The following are figuring: Hoffman & Co., John C. Conover, Somerville, N. J.; Butz & Clader, Allentown, N. J.; John D. Hornby, Glen Gardner, N. J.; Berry-Goodwin Co., Drexel Building, and Burd P. Evans Co., Thirteenth and Wallace streets; Edw. Fay & Sons, 2 South Mole street, all of Philadelphia; Sargent Brothers, Somerville, N. J.; John Milnes Port Richmond, N. Y.; Langan Eng. and

Const. Co., 75 Montgomery street, Jersey City, N. J.; Walter S. Scriven, Plainfield, N. J.; E. P. Baylor, Hampton, N. J.; John C. Cooper, Warrenville, N. J.; Altona Realty and Const. Co., No. 3 East Forty-fourth street, New York City. and I. N. Hoffman, High Bridge, N. J.

Dining Building (add.), Glen Gardner, N. J., \$10,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Brick, concrete and stucco, 2 stories, 39x50 feet, slag roof, steam heating, electric lighting. Owners taking bids, due September 3rd. F. Roe Searing, Perry Building; Edw. Fay & Sons, 2 South Mole street, Philadelphia; W. A. Stein & Co., Allentown, Pa.; Butz & Clader, Allentown; Philip A. Hickey, 79 High street; Sargent Brothers, Gunzelman & Kramer, all of Somerville, N. J.; Karl G. Smith, 671 Broad street, Newark, N. J.; John D. Hornby, Glen Gardner, N. J.; Phillipsburg Const. Co., Phillipsburg, N. J.; E. P. Baylor, Hampton; Ira Krause, Perth Amboy, N. J.; Langan Const. Co., Jersey City, N. J.; Lincoln Steele Fleming Co., 17 Madison avenue, New York City, are figuring.

Infirmiry, Glen Gardner, N. J., \$20,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Hollow tile and stucco, 2½ stories, 125x65 feet. Owners taking bids, due September 3rd. The following are figuring: F. Roe Searing, Perry Building; Edw. Fay & Sons, 2 South Mole street, Philadelphia; W. A. Stein & Co., Butz & Clader, Allentown, Pa.; Philip A. Hickey, 79 High street; Sargent Brothers, Gunzelman & Kramer, all of Somerville, N. J.; Karl G. Smith, 671 Broad street, Newark, N. J.; John D. Hornby, Glen Gardner, N. J.; Phillipsburg Const. Co., Phillipsburg, N. J.; E. P. Baylor, Hampton, N. J.; Ira Krause, Perth Amboy, N. J.; Langan Const. Co., Jersey City, N. J.; Lincoln Steele Fleming Co., 17 Madison avenue, New York City.

Power Plant, Vineland, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, Home for Feeble Minded Women, care of Dr. Madeliene Hollowell, Vineland, N. J. Brick. Plans in progress.

Residence, Ventnor, N. J., \$5,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, William H. Carroll, Ventnor, N. J. Frame, 2½ stories, 30x36 feet, slate roof, hot water heating, gas and electric lighting. Plans in progress. Owner will take bids in one week.

Apartment House (alts.), Maryland avenue, Atlantic City, N. J. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, Samuel F. Nixon, 842 North Broad street, Philadelphia. Brick, 3 stories, slag roof, consists of new porches, etc. Plans about completed. Bids in a few days.

Residence, Ventnor, N. J., \$7,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, H. G. Scull, Sheen Building, Atlantic City. Brick and stucco, 2½ stories, 26x36 feet, slate roof, hot water heating, gas and electric lighting. Plans completed. Owner ready for sub-bids.

Residence, Ocean City, N. J., \$15,000. Architect, Vivian B. Smith, Sheen Building, Atlantic City. Owner, E. F. Arthurs, Ocean City, N. J. Brick and frame, 2½ stories, 30x55 feet, slate and tile roof, hot water heating, gas and electric lighting, tile and hardwood floors. Plans completed. Ready for bids.

School, Point Pleasant, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, Buck Township, N. J. Brick, 1 story, 70x40 feet. Owners taking bids, due August 27th. A. H. Tolbert and John Chadwick, both of Barnegat, N. J., are figuring.

School (alt. and add.), Barnegat, N. J.,

\$7,500. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, Union Township, Barnegat, N. J. Hollow tile and frame, 2 stories, 38x24 feet, tin roof, mechanical system warm air heating, metal lath, slate blackboards. Owners taking bids, due August 28th. A. H. Tolbert and John Chadwick, Barnegat, N. J., are figuring.

School, Chesterfield, N. J., \$7,500. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, School Board, care of Miss Mary Braislin, Crosswicks, N. J. Brick, 1 story, 58x40 feet and 23x40 feet, slate roof, hot air heating, metal lath, safety treads, slate blackboards. Revised plans in progress.

Hotel (add.), Atlantic City, N. J., \$500,000. Architects (associated), Vivian B. Smith and Earle M. Henderer, Sheen Building, Atlantic City, N. J. Owners, Rudolf Hotel Co., Atlantic City, N. J. Brick, steel and terra cotta, fireproof, 11 stories, 100x175 feet, tile and slag roof, steam heating, electric lighting, concrete floors, 4 elevators, metal lath, waterproofing and dampproofing, heating and mechanical plant, kitchen and laundry. Architects taking bids. The following are figuring: James G. Doak & Co., Crozer Building; Doyle & Co., 1519 Sansom street; Alex. Chambley, 243 South Tenth street; Cramp & Co., Denckla Building; Freund-Seidenbach Co., Bulletin Building; Roydhouse-Arey Co., Fidelity Building; and H. E. Baton, Twelfth and Sansom streets, all of Philadelphia; George A. Fuller Co., Thompson-Starrett Co., Luke Burke & Sons, all of New York City, and W. Beaumont, Atlantic City, N. J.

Apartment Houses (2), South Carolina avenue and Boardwalk, Atlantic City, N. J., \$30,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, I. Aaron, 271 Connecticut avenue, Atlantic City, N. J. Brick and concrete, 3 stories, 25x75 feet each, slag roof, hot water heating, gas and electric lighting, tile floors, metal lath. Revised plans in progress.

Bungalows (8), Atlantic City, N. J., \$40,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City. Owner, Samuel F. Nixon, 842 North Broad street, Philadelphia. Brick and stucco, 1½ stories, 35x40 feet each, slate and tile roof, hot water heating, gas and electric lighting, hardwood floors. Plans completed. Architect taking bids in fall.

Apartment House (alt. and add.), Pacific avenue, Atlantic City, \$7,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner, George H. Berke, 1505 Pacific avenue, Atlantic City, N. J. Brick, 3 stories, 26x100 feet, slag roof, hot water heating, gas and electric lighting, metal lath, waterproofing and dampproofing. Architect taking bids.

School, Stone Harbor, N. J., \$12,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owners, Board of Education, Stone Harbor, N. J. Rough cast, 2 stories, asbestos shingle roof (heating and lighting, separate bids), slate blackboards. Owners ready for bids.

Apartment House, Ventnor, N. J., \$175,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner, John Stafford, 1112 Chestnut street, Philadelphia. Brick, concrete and steel, 6 stories, 165x94 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, metal lath, waterproofing and dampproofing and elevators. Plans about completed. Owner will take sub-bids soon.

Twin Residence, 5 Paul street, Trenton, N. J., \$7,500. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, James Lupo, 65 Paul street, Trenton, N. J. Brick, 2 stories, 26x50 feet, slate and tin roof, gas lighting, dampproofing. Architect has received bids.

Twin Residence, Greenwood avenue, Trenton, N. J., \$5,000. Architect, W. W. Slack, Trenton, N. J. Owner, Max Litt, 59 North

Clinton street, Trenton, N. J. Stucco, 2 stories, 16x30 feet, slag roof, electric lighting, metal lath. Architect ready for bids.

Residence, Greenwood avenue, Trenton, N. J., \$7,000. Architect, W. W. Slack & Sons, Trenton, N. J. Owner, Max Litt, 59 North Clinton street, Trenton, N. J. Stucco, 2 stories, 40x50 feet, slag roof, electric lighting, metal lath.

Residence, West State street, Trenton, N. J., \$10,000. Architect, W. W. Slack, Trenton, N. J. Owner, R. C. Kolb, 407 West State street, Trenton, N. J. Brick and stucco, 2½ stories, 30x65 feet, tile roof, combination lighting, hardwood and tile floors. Architect ready for bids.

Church, Raritan, N. J., \$25,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, Father Ketterer, Raritan, N. J. Tapestry brick, terra cotta and limestone; 50x110 feet, slate roof, steam or hot water heating, combination lighting, metal lath, dampproofing. Architect ready for bids.

New Jersey Contracts Awarded

School, Somers Point, N. J., \$20,000. Architect, E. M. Henderer, Ocean City, N. J. Owner, Board of Education, Somers Point, N. J. Brick and terra cotta, 2 stories and basement, 58x76 feet, slag roof, electric lighting, hot air heating, fan system, waterproofing. Contract awarded to Alexander Chambley, 243 South Tenth street, Philadelphia.

Residence, Moorestown, N. J., \$,000. Architect, A. H. Moses, 136 South Fourth street, Philadelphia. Owner, Simon Van T. Jester, Moorestown, N. J. Frame and plaster, 2½ stories, shingle roof, hot water heating, gas and electric lighting. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Residence, Pitman, N. J., \$4,500. Architect, H. A. Brown, Beverly, N. J. Owner, Guernsey Scholl, Pitman, N. J. Hollow tile, 2 stories, shingle roof, hot air heating, combination lighting. Contract awarded to W. A. Lacy, Pitman, N. J.

Bungalow, Burlington, N. J., \$4,000. Architect, H. A. Brown, Beverly, N. J. Owner, Russell Clark, Burlington, N. J. Frame, 2½ stories, 22x39 feet, shingle roof, hot air heating, combination lighting. Contract awarded to J. E. Kolster, Beverly, N. J.

Maryland Construction News

Church, Garrison avenue, Mt. Alto, Baltimore, Md., \$30,000. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, Starr M. E. Church, Mt. Alto, Baltimore, Md. Stone, limestone trimmings, 2 stories, 65x90 feet, slate roof, steam heating, electric lighting. Architects taking bids due August 27th. The following are figuring: E. G. Turner, 15 East Fayette street; J. L. Robinson Construction Co., Knickerbocker Building; Cowan Building Co., 106 West Madison street; A. Knell, Jr., 215 St. Paul street; C. C. Watts, 427 East Twenty-fifth street; Consolidated Engineering Co., Calvert Building; C. L. Stockhausen, Gay and Water streets; B. F. Bennett Building Co., 125 South Howard st.; Edmond Walters & Co., 509 North Charles st., all of Baltimore Md.

Home (add.), Broadway and Thames st., Baltimore, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, The Anchorage, on premises. Brick and concrete, 4 stories, 27x60 feet, slag roof, steam heating, electric lighting. Architects taking bids due August 27th. The following are fig-

uring: A. F. West, 15 East Fayette street; Edward Walters & Co., 509 North Charles street; Consolidated Engineering Co., Calvert Building; Cowan Building Co., 106 West Madison street, all of Baltimore, Md.

Comfort Station (add.), Centre Market Space and Lombard street, Baltimore, Md. Architect, private plans. Owner, City of Baltimore, City Hall, Baltimore, Md. Brick, granite and limestone, 2 stories, tin roof, steam heating, electric lighting, tile floors. Owner taking bids due August 26th. The following are figuring: P. J. Cushen, 218 St. Paul st.; Charles Herbold & Son, 2768 West North avenue; George W. Mann, Columbia avenue and B. & O. R. R.; Frederick Decker & Son, 1209 East Biddle street; Edw. Walters & Co., 509 North Charles street; Henry S. Ripple, 7 Clay street, all of Baltimore, Md.

Residence, Ten Hills, Md. Architect, not selected. Owner, J. J. Heavey, care of Fidelity & Deposit Company, of Maryland, Fidelity Building, Baltimore, Md. Frame, 2½ stories, slate roof, steam heating. Too early for details.

Church and Sunday School Building, Park Heights avenue, Baltimore, Md., \$40,000. Architect, W. J. Palmer, Warder Building, Washington, D. C. Owner, Park Heights Avenue M. E. Church, Park Heights avenue, Baltimore, Md. Brick, 3 stories, 57x165 feet, slate roof, steam heating, electric lighting. Plans in progress.

Store Building, Fallsway, near Baltimore street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Louis Miller, 5-7 Lloyd street, Baltimore, Md. Brick, 3 stories, 30x75 feet, slag roof, steam heating, electric lighting. Plans in progress.

Store and Apartment, Annapolis, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Philip Miller, Annapolis, Md. Brick, steel, 3 stories, 46x120 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Store (add.), rear of Fayette street, near Liberty street, Baltimore, Md., \$150,000. Architect, Joseph E. Sperry, 409 Calvert Building, Baltimore, Md. Owners, Townsend & Grace Co., 209-11 West Fayette street, Baltimore, Md. Brick and concrete, 8 stories, slag roof, steam heating, electric lighting, metal lath, dampproofing. Plans in progress.

Residence (alt. and add.), rear 1418 North Eutaw place, Baltimore, Md., \$25,000. Architect, Joseph Evans Sperry, Calvery Building, Baltimore, Md. Owner, Dr. Howard Kelly, 1418 Eutaw place, Baltimore, Md. Brick and stone, 3 stories, 24x37 feet, slate roof, steam heating, electric lighting, tile work, terra cotta. Architect taking bids. The following are figuring: Morrow Brothers, Fidelity Building; Hy. Smith Sons Co., Light and German streets; Edw. Brady & Son, Cathedral and Howard streets; B. F. Bennett Building Co., 123 South Howard street, and L. Schoenlein & Sons, 1722 East Baltimore street, all of Baltimore, Md.

Store Building, 600 North Howard street, Baltimore, Md. Architect, private plans. Owners, Enterprise Steam and Hot Water Heating Co., 407 North Howard street, Baltimore. Brick, 3 stories, 26x130 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing. Owners taking bids. John S. Busick, 2811 Raynor avenue, Baltimore, Md., is figuring.

Market House (add.), Centre Market, Ly-sam and Lombard street, Baltimore, Md., \$7,000. Architect, City. Owners, City of Baltimore, City Hall, Baltimore, Md. Brick, 2 stories, tin roof, steam heating, electric lighting, tile floors. Owners have received bids.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

MARYLAND

Contracts Awarded

Picture Theatre, 3107 West North avenue, Baltimore, Md., \$10,000. Architect, private plans. Owner, Thomas D. Goldberg, 3113 W. North avenue, Baltimore, Md. Brick, 1 story, 37x100 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to Thomas B. Stanfield & Co., 109 Clay street, Baltimore, Md.

Boiler House, Wicomico street, near Cross street, Baltimore, Md., \$4,500. Engineer, Henry Adams, Calvert Building, Baltimore, Md. Owner, Baltimore Bargain House Co., Liberty and Baltimore streets, Baltimore, Md. Brick, 1 story, 32x45 feet, slag roof, electric lighting, concrete floors. Contract awarded to Elkan-Tufts Construction Co., Coca-Cola Building, Baltimore, Md.

Residences (2), 2906-2908 Edmonson avenue, Baltimore, Md., \$6,800. Architect, Jacob F. Gerwig, Equitable Building, Baltimore, Md. Owner, Edward Krammer, care of Architect. Brick, 2 stories, 14x45 feet each, tin roofs, hot air heating, electric lighting. Contract awarded to William S. Raleigh, 1719 Windsor Mills Road, Baltimore, Md.

Apartment House, Park drive, between Calow and Lake View avenue, Baltimore, Md., \$24,000. Architects, J. H. & F. J. Thuman, 2105 Oak street, Baltimore, Md. Owner, Real Estate Securities Co., care of Architect. Brick, stone trimmings, 3 stories, 40x76 feet, slate roof, steam heating, electric lighting, tile works, elevator. Contract awarded to Baltimore Engineering & Contracting Co., Baltimore, Md.

Hall Building (Add.), 1133 Gilmore street, Baltimore, Md., \$6,000. Architect, George R. Callis, Jr., Knickerbocker Building, Baltimore, Md. Owner, Daughters of Eucharsis, 1133 Gilmore street, Baltimore, Md. Brick, 2 stories, 20x50 feet, tin roof, hot water heating, electric lighting. Contract awarded to J. J. O'Connor, 427 East Lexington street, Baltimore, Md.

Residence, 729 Roland avenue, Baltimore, Md., \$6,000. Architect, private plans. Owner, Levi L. Chambers, 2074 Woodberry avenue, Baltimore, Md. Brick, 2½ stories, 42x38 feet, tile roof, hot air heating, electric lighting. Owner will take sub-bids on all lines.

School, Thurmont, Md., \$31,000. Architect, B. Everd Keysner, Frederick, Md. Owner, Frederick County School Commission, Frederick, Md. Brick, 2 stories and basement, 93x112 feet, 12 rooms, concrete roof, steam heating, electric lighting, metal lath, damp-proofing and waterproofing. Contract awarded to Lloyd C. Culler, 231 South Market st., Frederick, Md.

Dwellings, Hilton street, Baltimore, Md., \$2,500 each. Architect, Hy. G. Glantz, 1217 West North avenue, Baltimore, Md. Owners, Hilton Land Co., Baltimore, Md. Brick, 2 stories, 16x52 feet, tin roof, hot water heating, electric lighting. Contract awarded to Hy. G. Glantz, 1217 West North avenue, Baltimore, Md.

Hospital (add.), Cumberland, Md., \$19,000. Architects, Wright & Butler, Cumberland, Md. Owners, Western Maryland Hospital, Cumberland, Md. Brick, 2 and 4 stories, 36x44 feet and 28x41 feet, tin and slate roof, steam heating, electric lighting. Contract awarded to Wright & Richardson Co., Cumberland, Md.

Residence, Guilford, Md. Architect, E. L. Palmer, Roland Park, Md. Owner, Eugene Greenway, Calvert Building, Baltimore, Md. Brick, 2½ stories, 40x45 feet, slate roof, steam heating, electric lighting. Contract awarded to Singer-Pentz Co., Equitable Building, Baltimore, Md.

Store (Front and alt.), southeast corner Franklin and Eutaw streets, Baltimore, Md., \$10,000. Architect, private plans. Owner, Hyland P. Stewart, Fidelity Building, Baltimore, Md. Brick, 45x24 feet, steam heating, electric lighting. Contract awarded to R. B. Mason, 306 West Madison street, Baltimore, Md.

Apartment House, Park Drive, between Calows and Park View avenue, Baltimore, Md. Architects, J. H. & F. J. Thuman, 2115 Oak street, Baltimore, Md. Owners, Real Estate Securities Co., Baltimore, Md. Brick, 3 stories, 34x70 feet, slag roof, steam heating, electric lighting. Contract awarded to Baltimore Engineering and Construction Co., Maryland Trust Building, Baltimore, Md.

Miscellaneous Construction News

Factory Buildings (2), Syracuse, N. Y. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner, New Process Gear Corporation, Syracuse, N. Y. Reinforced concrete, 3 stories, 83x43 feet, brick and steel, 1 story, 48x127 feet, slag roof, steam heating, electric lighting. Engineers taking sub-bids on all lines, due August 27th.

Residence, Wilmington, Del., \$50,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street, Philadelphia. Owner, Josiah Marvel, duPont Building, Wilmington, Del. Stone, 3 stories, 100x50 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors. Architect taking sub-bids on all lines due August 28th.

School, Cleveland, Ohio. Architect, private plans. Owner, Board of Education, Cleveland, Ohio. Brick, concrete and steel, fire-proof, 2 stories, 70x126 feet, 2 wings, 63x44 feet each, slag roof, enameled bricks, slate blackboards, metal lath, waterproofing and dampproofing (heating and electric work sep-

arate bids). Owner taking bids due September 6th. James H. Wells, Heed Building, Philadelphia, is figuring.

Miscellaneous

Contracts Awarded

Offices (alt. and add.), foot French street, Wilmington, Del. Architects, Brown & White-side, duPont Building, Wilmington, Del. Owner, G. W. Bush & Sons Co., on premises. Maskite blocks, 150x28 feet, tin roof, steam heating, electric lighting. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

An advertisement should stick out like a sore thumb without being so sensitive.—
"Novelty News."

Permits for New Buildings

PHILADELPHIA.

George Howe (O), 8864 Germantown avenue. J. M. Stevens (C), 8110 Germantown avenue. Cost, \$50,000. Dwelling, stone, 4 stories, 64x48 feet, Crefelt street and Hampton avenue, Germantown.

Louis Garfenkel (O), Seventy-eighth and Brewster avenue. Yoskin & Shefkin (C), 7717 Brewster avenue. Cost, \$34,500. Twenty-three dwellings, brick, 2 stories, 15x26 feet, Sixty-third and Wheeler streets. Cost, \$3,000. Two dwellings. Cost, \$4,500. Three dwellings. Cost, \$1,800. One dwelling. Cost, \$2,000. Store and dwelling.

H. S. Marks (O), 1112 Chestnut st. Samuel Schultz (C), 923 East Moyamensing avenue. Cost, \$3,900. Store, brick, 2 stories, 15x80 feet, 1309 Vine street, Philadelphia.

Kensington Hospital (O), 136 Diamond st. A. H. Williams & Sons (C), 419 Locust st. Cost, \$19,000. Hospital, brick, 4 stories, 44x36 feet, 136 Diamond street.

B. Isenberg (O), 3877 Poplar street. Cost, \$1,500. Dwelling, brick, 2 stories, 16x34 feet, Van Kirk and Keystone streets. Cost, \$7,800. Six dwellings.

W. C. Kimber (O), Haines street, Germantown. Joel W. Hutton Co. (C), Harrison Building. Cost, \$20,000. Residence, stone, 3 stories, 80x42 feet, Sprague and Haines sts., Germantown.

C. Keely (O), 312 West Seymour street. Cost, \$12,500. Ten dwellings, brick, 2 stories, 14x26 feet, Wilmot and Richmond streets. Cost, \$1,400. One dwelling.

Dr. George Woodward (O), 709 North American Building. Pringle Borthwick (C), 8018 Germantown avenue. Cost, \$3,800. Garage, stone, 2 stories, 22x44 feet, St. Martin's, Pa.

G. R. Nichols (O), Wissahickon avenue and Carpenter street. Kohl & Megargee (C), 124 East Gorgas street. Cost, \$9,685. Residence, stone, 3 stories, 28x47 feet, Wissahickon avenue and Carpenter street, Germantown.

John Harley (O), 2664 Coral street. Bushnell Bros. (C), 2246 North Fifth street. Cost, \$9,000. Residence, stone, 3 stories, 18x50 feet, 2670 Coral street.

Charles Bosch (O), Eighty-seventh street and Eastwick avenue. George S. Roe (C), 6949 Saybrook avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 16x32 feet, Eighty-seventh street and Eastwick avenue.

H. Valensky (O), 611 Bainbridge street. M. Yacknitz (C), 1202 North Seventh street. Cost, \$4,850. Dwelling and store, brick, 3 stories, 16x50 feet, 615 Bainbridge street.

B. Lebinski (O), 4450 Edgemont street. Cost, \$4,800. Four dwellings, stone, 2 stories, 16x35 feet, Ontario and Edgemont streets.

H. Bainbridge (O), Torresdale, Pa. Lewis Deitrich (C), 3016 Comly street. Cost, \$2,800. Residence, brick, 3 stories, 16x39 feet, Cottage and Benner streets.

Mt. Sinai Hospital (O), 1429 South Fifth street. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$10,500. Boiler house, brick, 2 stories, 39x40 feet, 1429 South Fifth street.

A. H. Englund (O), 6886 Drexel road. M. W. Young (C), Overbrook, Pa. Cost, \$12,500. Residence, stone, 3 stories, 46x35 feet. Cost, \$1,200. Garage.

Lewis Ahlers (O), 4438 Salmon street. Cost, \$1,800. One dwelling, brick, 2 stories, 16x43 feet, 4534 Richmond street. Cost, \$4,800. Three dwellings.

C. C. Wriggins (O), 1022 Chestnut street. Jacob Myers & Sons Co. (C), Witherspoon Building. Cost, \$12,000. Dwelling, stone, 3 stories, 28x58 feet, 410 Locust avenue, Germantown.

L. K. Stifer (O), 4250 North Broad street. Cost, \$2,500. Dwelling, stone, 2 stories, 16x53 feet, Park and Hunting Park avenues.

W. J. Bussinger (O), 2428 Fairhill street.
W. Schmitt (C), 4930 Fairhill street. Cost, \$3,300. Dwelling, stone, 3 stories, 16x30 feet, "G" street and Cheltenham avenue, Germantown.
Thomas Byrnes (O), 2400 North Ninth st.
W. J. Jones (C), 2924 North Fifth st. Cost, \$2,950. Storage building, brick, 3 stories, 16x65 feet, 2400 North Ninth street.

John Blong, Jr. (O), Seventy-seventh street and Brewster avenue. George Blong (C), 7707 Lyons avenue. Cost, \$1,400. Dwelling, brick, 2 stories, 16x38 feet, 7903 Lyons ave.

George W. Blabon (O), Nicetown, Pa. William Steele & Sons Co. (C), 1600 Arch street. Cost, \$90,000. Manufacturing building, brick, 5 stories, 72x273 feet, Nicetown, Pa.

Alterations and Additions

Roberts & Manders (O), Eleventh street and Washington avenue. H. C. Dahl (C), 231 South Eighth street. Cost, \$1,400. Manufacturing building, Eleventh street and Washington avenue.

Bell Co. (O), 923 North Hancock street. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$2,000. Garage, Allegheny avenue and Mascher street.

D. C. Donaghue (O), Penn Square Building. H. H. Burrell (C), 1204 Chancellor street. Cost, \$750. Office, Thirteenth and Arch sts.

M. West (O), 436 North Second street. Louis Cutler (C), 618 North Second street. Cost, \$1,500. Store and dwelling, 436 North Second street.

Acme Tea Co. (O), Fifth and Noble streets. E. H. Sturts (C), 2416 Ridge avenue. Cost, \$1,600. Store, 3502 Longshore street.

Blumberg Bros. (O), 328 Noble street. J. Greenspheen (C), 551 North Sixth street. Cost, \$2,000. Factory, 328 Noble street.

Dr. George Strawbridge (O), Wissahickon avenue and Horrtter street. F. B. Davis (C), 240 North Sixteenth street. Cost, \$3,500. Store and office, 202 South Fifteenth street.

H. D. Beaston (O), 308 Bulletin Building. J. Sullivan (C), 8916 Woodland avenue. Cost, \$1,000. Shop, Twenty-fifth and Dauphin sts. Cost, \$1,000. Shed.

Charles Class (O), 1906 North Twelfth st. M. Schwab (C), 3650 North Eleventh street. Cost, \$1,200. Office, 1729 North Mervine st.

M. J. Walsh (O), 819 East Tioga street. Cost, \$4,000. Dwelling, 6733 Emlen street.

John Daiber (O), Knorr and Hegerman sts. M. Morrison (C), 2322 North Howard street. Cost, \$1,000. Store, Van Kirk and Longshore streets.

A. Woodhead (O), Dauphin street. Joseph Ashby (C), Fox Chase, Phila. Cost, \$1,000. Dwelling, "K" and Bleigh streets.

Benjamin Alexander (O), 1326 Chestnut st. Basch & Co. (C), 1436 South Front street. Cost, \$2,300. Store and office, 17 and 19 North Thirteenth street.

Charity Hospital (O), 1731 Vine street. K. E. Bonney & Co. (C), Parkway Building. Cost, \$2,000. Hospital, 1731 Vine street.

A. Mecky Co. (O), Seventeenth street and Allegheny avenue. A. R. Raff (C), 1635 Thompson street. Cost, \$2,000. Manufacturing building, Seventeenth street and Allegheny avenue.

St. Matthew's Reformed Church (O), Fifth and Venango streets. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$2,000. Church, Fifth and Venango streets.

Samuel Bushnad (O), 975 North Seventh st. Krakover Bros. (C), 731 Parrish street. Cost, \$2,000. Bath house, 973 North seventh street.

S. S. White Dental Co. (O), Twelfth and Chestnut streets. William R. Dougherty, 1610 Sansom street. Cost, \$1,000. Storage 211 S. Twelfth street.

George Staehle (O), Thirty-third and York streets. Cost, \$2,400. Office, Thirty-third and York streets.

Hilton Dyeing Co. (O), 2702 Jasper street.

G. H. Thirsk (C), 7739 Jasper street. Cost, \$1,000. Tank supports, 2702 Jasper street.

W. K. Alcott (O), Eighteenth street and Washington avenue. A. H. Prentzel (C), Johnson and Sherman streets. Cost, \$9,000. Shed, Fifty-second street and Lancaster ave.

Supplee's Alderney Dairies (O), Eleventh and Jefferson streets. Burd P. Evans Co. (C), Thirteenth and Wallace streets. Cost, \$5,000. Wagon shed, Eleventh and Jefferson streets.

C. A. Druiding (O), Sixty-ninth street and Lawnton avenue. J. McCann (C), 210 West Dauphin street. Cost, \$2,400. Dwelling, Sixty-ninth street and Lawnton avenue.

M. E. Hospital (O), Broad and Wolf streets. F. E. Wallace (C), 1210 Sansom street. Cost, \$4,000. Hospital, Broad and Wolf streets.

Pennsylvania Railroad Co. (O), Broad Street Station. Keystone State Construction Co. (C), Pennsylvania Building. Cost, \$1,000. Baggage Room, Broad Street Station.

RECORD BREAKING BRICK ORDERS.

S. B. Dobbs, Philadelphia brick manufacturer and dealer, books an order for a million and a half rough texture face brick for the three million dollar Hotel Traymore, now in course of erection at Atlantic City, N. J., which, it is said, when completed, will be the finest hotel in the state.

In addition to those, Mr. Dobbs has just closed orders for 800,000 required for the Bell Telephone job, Seventeenth and Arch streets, Philadelphia; 700,000 for the Philadelphia Electric Company's power house, Twenty-sixth and Christian streets, Philadelphia, and 300,000 for the Girard Estate, besides several other smaller orders. He reports business exceptionally good and prospects for work in this section very encouraging.

MR. GILBERT SAYS TALL BUILDINGS ARE UNECONOMIC.

Architect Cass Gilbert's declaration some months ago through a newspaper interview in London that the 100-story building was a possibility and would probably be a reality in the not very distant future was considered so sensational that his discussion with the newspaper men was sent broadcast all over the world, and his views were regarded as visionary by many. Mr. Gilbert does not like to talk about the 100-story building, in fact, he considers the skyscraper uneconomic and contrary to natural civic development.

"I do not wish to be the advocate of excessively tall buildings," said Mr. Gilbert, in an interview while in California recently. "While the building of one hundred stories or even more is possible, I do not think it desirable for a number of reasons.

"In America I think that we have gone to an extreme in the height of our buildings. There are exceptional cases, as in New York, where the excessively high value of land makes tall buildings necessary, but on general principles I am opposed to them.

"Excessively tall buildings are a disadvantage because they are likely to produce congestion of traffic on the streets. When the occupants of a 100-story building come forth at the close of the day's work, streets in the vicinity would inevitably be crowded.

"The excessively high building draws business from other properties to the general disadvantage of the city. Economic conditions are better in Paris, for instance, where the buildings are all under twelve stories.

"London, with a population of between 6,000,000 and 7,000,000, has managed to transact business in buildings of moderate height, and London is the great financial and commercial center of the world."

ORIGIN OF "BUNGALOW."

The word "bungalow" is of comparatively modern date and is Anglo-Indian. Its origin can be traced to the adjective *bangla* (Hindustani), which literally means "belonging to Bengal." It is an easy step from this to the manuscript preserved in the India office (England), dated 1676, which has a reference to "Bungales or Hovells . . . for all English in the Company's service." Of course the word was in the making, and the building improved with the word.

Later, in 1711, we find a reference to a "Dutch Bungelow" on the shores of the Hughley. In the Eighteenth and early Nineteenth Centuries there are references, in Anglo-Indian correspondence to wayside houses which are spelled "bungula" and "bungalo," and in one instance, in 1809, a journal of residence in India describes bungalow as a garden house. Whatever the first meaning, the word, in its present form, "has come to stay."—"House Beautiful."

CLEANING OLD BRICK.

There has been invented by a Philadelphia (Pa.) mechanic a machine to clean used brick that will cut the cost to half or even a third of that of the old style method of cleaning by hand. It is estimated that the number of brick cleaned in this city in a single year is not less than 25,000,000, at a cost of \$1 to \$1.50 per 1,000.

This new machine will clean them for about 50 cents a thousand. The method of operation is to put the brick into the jaws in the front of the machine, which grasp it and move it sideways over the corrugated surface. This cleans the end of the brick, and at the same time the two broad sides at top and bottom are cleaned for about two inches, back of the end. The partially cleaned sides are then inserted between two projecting opposed blades of a four-sided die and a plunger at the other end of the brick comes forward and pushes the brick through. The upper plate of the die is movable and adjusts itself automatically to the thickness of the brick. The sides, as well as the bottom and top of the brick, are thus cleaned all at the same time.

The machine is four feet long and weighs 400 pounds, so that it is readily portable. It is placed upon a platform or truck so as to be about breast high. It can be operated by either one or two men, and with an engine of 2½ horsepower its capacity is 15 bricks a minute. It can be adjusted to work slow or fast as desired.

The commercial value of this invention lies in the fact that when by reason of the cost or because of lack of time, old bricks are not cleaned they are thrown away as useless. With the device these bricks may now be saved. In New York 100,000,000 brick are now cleaned annually by hand.

Bell Phone, Spruce 6612 Keystone Phone, Race 2799

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Irving Dillon.....Editor

PHILADELPHIA, PA., AUGUST 26, 1914.

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(Organized 1857)

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Editorial Comment

That the architect of the future will be his own builder, doing away with all middlemen and seeing the project through from the drawing of plans on down to the final touches, is the "opinion" not of some callow theorist, but of one of the most experienced and successful builders in the United States. The author of this remarkable view of the architect of the future is Mr. Theodore Starrett. Mr. Starrett has the veteran builder's ill-concealed contempt for what he refers to as "the artist-architect." This chap, with his velvet studio coat, his flamboyant ideals, his superciliousness and affectation, Mr. Starrett thinks, will be crowded into some other profession. Trying out high art ideas on fifteen to twenty-story buildings is too expensive a pastime to be continued for any considerable length of time.

This artist chap, Mr. Starrett opines, will find his way into something less exacting, financially speaking, and there work out his theories to their ultimate inconclusiveness. His successor will be the more commercial type of architect who plans for his clients—the designer whose first thought will be a building whose interior arrangement is calculated to adapt it to the purposes for which it is to be used and whose ideas of ornament will be confined to a few sensible decorations necessary to save the building from positive plainness. But let Mr. Starrett talk for himself.

* * *

Writing in the pages of our New York contemporary, "Architecture and Building," Mr. Starrett says:

"Architecture as a fine art and architecture as a business are two different things, but it's hard to teach artist architects the cold facts and thereby save their noble profession from the grasping clutch of commercialism.

"Architecture in this 'higher' sense and sculpture are alike in that very few good monuments are built in spite of the mighty efforts that are put forth. Judging by results, by the buildings that are really good—let alone great—the whole thing is a tempest in a teapot, and this or that artist's fine frenzy, his work of art, this building that has been halted and dragged for months and months and months and the expenses piled up and the owner disappointed at the delays—this fine building that is built to make an architect's monument is generally devoid of any merit except to the eyes of its designer.

"The fact is that owners shun these artists nowadays as they would the plague. They are beginning to find out what so many people have found out about so many institutions, that they are a bluff.

"Perhaps the last ones to find this out will be the architects themselves, although that is but natural. Surrounded as they all are, the business ones as well as the artists, by an army of sycophantic and flattering contractors and builders, what else could be expected?

"The architect of the kind that is going is a creation of the builders. They have tried to perpetuate a system in which the architect knows nothing except—what? Well, his creators, the builders, wanted him to know nothing at all but his beautiful architecture. And the more finicky he was about this the better they liked it. The more changes, the more destruction of this or that feature to try a different effect, the more they, the builders, could charge and make the owner pay.

"That was an early stage of the game. The trade union was part of that game. It was the goat. Blame it all on the unions and the walking delegates.

"To perpetuate this condition all kinds of schemes were resorted to. The profession of architecture became surrounded by a halo—not of light, but of something—something that could not be seen through. The architect was made to be a character absolved from responsibility. Like the king, he could do no wrong. His favor made or unmade men.

* * *

"Volumes could be told about this group or that group of jolly builders that figured in this or that office—and assumed therefore to own it—and the way in which they kept interlopers out. Nothing scared one of these simonpure architects more than the thought of having some outlander builder do his work, to take liberties with it, to disregard his whims, to stand on his rights in case of a dispute, to go to the owner, perhaps, and tell him about some rank omission from the specifications or drawings which might have been said to be intended for an opening for some favorite contractor to drive an ox cart through and load it with thousands of dollars of extras.

Stories could be told of the inveterate dislike of some of the established architects for the new style builders, and of the conniption fits which they had when the new builders were at last forced upon them.

"The arguments that I referred to at the beginning of this discourse grew apace. Inquests were held over everything. The revolutionary times that we are in, the increasing demands of the trade unions, the advancing costs, all tended to make uncomfortable the lot of the artist architect because he was the man that the owner held responsible.

"No use to fall back on his creators, the builders. They would not help him. In fact, the builders evenwhiles were knifing the architect with the owners.

"Whatever may be said about the correctness or incorrectness of my statement that there are mighty few beautiful architectural monuments to be found anywhere, it is nevertheless true that their very rarity makes them all the more precious—all the more to be desired and sought for.

"The business architect, subordinating art as the book publisher does, will have no use

for famous builders. He will do his own building.

"And the old-style architect, the artist architect, what will become of him? He will be swallowed, too."

* * *

Here is a statement of the case that is novel, to say the least. But, while most of us in the building trades will feel tempted to endorse Mr. Starrett's views as to the "artist-architect," not all of us will find it possible to subscribe to his main conclusion. That architecture—in its commercialized forms—will grow in simplicity and adaptability rather than in monumental elaborateness, no one at all familiar with the trend of affairs will presume to doubt. The elimination of the builder is, to our way of thinking, another story. Most builders are required to be, above and beyond all things else, first class business men. Few architects possess this business talent. The order of ability that enables a man to design and plan successful buildings is a thing apart from the ability that endows a man with skill in handling men and managing large enterprises. There will be isolated cases here and there, of course, of men in whom the two talents are united, but these cases will be exceptions, valuable chiefly in that they serve to prove the rule.

With all due deference to Mr. Starrett as an authority on building and as one whose experience has been such as to qualify him to speak in a measure *ex cathedra* upon topics related to the building field we would hardly advise any builder of the present to go out of business just yet. We're afraid the architect-builder will be much longer in appearing than Mr. Starrett seems to think, and much less potential when he gets here.

* * *

By the way, that witty individual who signs himself "Thomas Thumbtack," and from whose sketches we have had occasion to quote more than one lively paragraph during the past six months, is still at it. In the August number of "Architecture and Building," Thumbtack discusses, among other things, the reasons why architects do not advertise.

"We architects insist that we never advertise," writes Thumbtack, "but the public assumes that we do by looking at the daily papers. Here is the trouble. It takes twenty thousand people to support an architect, and less than a twentieth of such constituents know one by sight. If the other nineteen thousand ever hear of him at all, they read about him. Do they get it straight? Would it not be well to make sure that they do? Just after a famous murder trial I remember hearing a mother say to her buxom daughter, 'Quick! Ruth, lock the door! That's an architect coming.'"

"The real reason why the magazines and daily papers show pictures of buildings and leave little doubt as to who designed them is that, if deftly done, it advertises the architect. Don't you recognize this kind of thing? 'The beautiful English country house of Mr. Blank Wall, of Wall and Broad, is a long way

from town and gains natural environment by each mile of such seclusion. The suggestion of living in rural seclusion reached readily by motor car came from Mr. Wall's architect, Mr. Tom Thumbtack.' Note the fine touch! See how he sets the stage! See how he selects the scenery! Gibson used to draw pictures and request you to 'Find the young millionaire giving the dinner.' In similar vein I ask you to find the author who provided text and pictures for that full page in the Sunday 'Herald.'"

"Here's another one taken from a magazine: 'The site was a narrow ledge of rock, two hundred feet long by one room wide, and to make the house seem rooted to its rocky ridge and not stranded there by a receding tide was a tremendous task. Yet by composing the building to the hill outlines and making it of native stone and coloring it wood colors like the woods around, the Johnson house is very neighborly to nature. Its architect, Mr. Country-Job, who lives hardby.' That was a subtle one. You thought it was the editress of 'Suffrage or Suicide' who indited those winged words about the crag and the tide and how well the anchors held and that babes-in-the-woods effect. Or maybe you innocently imagined that Johnson dug down into his jeans to pay for the pictures of his house and then hired Hardup Davis to talk about the tide. Two bad guesses! Charley Country-Job put that across. He lives 'hardby,' and that tells one where to write.

"Here's another. It is short and has the added charm of automatic monthly repetition. It's in the advertising section of an architectural magazine. The man who paid for it makes the boilers. It reads: 'House of J. St. Society Early-Dutch, No. 58 North Seventy-second street, N. Y., James Joint, Arch't.' Then something about boilers. Joint sent the boiler man the picture. With these broad hints on how-it's-done you can count for yourself just how many architects bring suit for such unwarranted publicity. An armless man could count them on his fingers.

* * *

"It is unprofessional to advertise."

"Now you have your inning, your round, most ethical brother! You have ensconced yourself in the professional king-row beside the doctor, the lawyer, and the minister, where, most aesthetically dressed, you may sit and glower across a mighty chasm, at the quack, the scab, the charlatan. Meanwhile I have made up a new charge for the cannon which your very noblesse obliges you to send echoing and reverberating among the hilltops of the elect.

"It is professional to educate."

"This is the modern sentiment of science, church and school. It has sent missionaries into the wilds and teachers over all lands of enlightenment. Such education is more needed now in architecture than was printing before Guttenburg. Architecture is not alchemy to hide in a hovel amid glowing furnaces. The public doesn't know what architecture is or what an architect looks like or where

his duties start and where they stop. Many a layman thinks he is a kind of educated builder who is different from the other kind only in that he can make blue-prints. Another thinks he is a chalk-talk artist who draws a building every hour, and that a good dinner more than pays him for his effort. For these and other reasons many a layman believes and practices that its pilot is the most readily dispensable of all his building crew. As did the little girl with artichokes, so the public confuses him with many other kinds of things. 'An architect is a kind of cabbage all green outside and nothing inside. Mother likes them more than father.' The United States Senate is convinced that the American Institute is a drawing trust. Ask the next man you meet how to pronounce A-R-C-H-I-T-E-C-T.

"Such country-wide ignorance about our profession is not only degrading to it, but actually dangerous, as is every kind of ignorance.

"Provide then for the cannon this new ammunition.

"It is Professional to Educate.'"

* * *

Do you get the Thumbtack point of view? Then do a certain amount of advertising along lines purely educational. It may be unprofessional to advertise. It is certainly not a breach of ethics to educate your public.

MOST EXPENSIVE ADVERTISING.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

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ELECTRICITY

should be provided for in every building you erect, for now-a-days it is hard to rent or sell a house, store or building unless it is wired for electric service.

We will be very glad to have you take advantage of our facilities for planning the lighting equipment of new buildings with due regard to the highest efficiency and greatest economy.



Slate Production in the United States.

While the introduction of slate is one of the lesser important industries of the United States the output in 1913 was valued at \$6,175,476, which, according to the report just issued, by the United State Geological Survey, was an increase of \$132,158 compared with 1912. This increase did not represent any unusual activity in the slate trade, but was caused by an advance in the average price of the material itself. In fact, as compared with 1904, when the slate output was valued at \$5,617,195, the output in 1913 shows an increase in value of only 10 per cent.

All the eight producing States except Maryland, Vermont and Virginia increased in total value of output of slate over 1912, the largest increase, 14.62 per cent., being in Maine.

The value of mill stock, including slate sold for all purposes other than roofing, increased from \$1,407,133 in 1912 to \$1,714,414 in 1913, a gain of \$307,281. Exclusive of blackboard and school slates, the mill stock increased from 5,765,273 square feet, valued at \$1,013,220, in 1912, to 6,312,011 square feet, valued at \$1,233,838, in 1913, an increase of 546,738 square feet in quantity and of \$220,618 in value.

Mill stock includes slate used for blackboards, school slates, flooring, wainscoting, vats, tiles, sinks, laundry tubs, grave vaults, sanitary ware, refrigerator shelves, flour bins and dough troughs for bakeries, electric switchboards, mantels, hearths, well caps, and billiard, laboratory, kitchen and other table tops.

In 1913 the output of roofing slate was reported as 1,113,944 squares, valued at \$4,461,062, a decrease as compared with 1912 of 83,344 squares in quantity and of \$175,123 in value. The number of school slates sold in 1913 was 6,174,526, valued at \$51,313, and the blackboard material amounted to 3,504,162 square feet, valued at \$426,703.

WATERPROOFING CEMENT SURFACES

The Proper Way to Treat Cement Surfaces so as to Render Them Waterproof and to Permit of Their Decoration

We present in what follows copious extracts from a paper on the subject indicated by the above title read by George H. Gresser at a recent meeting of The Builders' Exchange of Canton, Ohio:

"This problem is of great interest to the architect, engineer, building contractor and owner, as it is only recently that cement and concrete are being used extensively in the construction of the modern building.

Production of Cement.

"Statistics show us that in the last fourteen years the production of cement has increased from 3,000,000 to 35,000,000 barrels a year. The cause of this wonderful increase is due to the economy in manufacture and efficiency in concrete construction. But with all the advantages that cement has over other materials as to economy and strength, great care must be exercised in mixing and applying it to the finished surface, to get it uniform in color. It has been proven that hollow blocks absorb moisture 4 to 5 per cent. of their own weight and retain this moisture for some time. Damp walls, as we all know well, are a detriment to health, and this factor is appreciated to such an extent that is has actually retarded the use of concrete in some instances.

"Another argument against cement surfaces is that we do not get a uniform, pleasing color, but get varied shades of dull gray, very uninviting, that do not compare with the rich colors we find in terra cotta, granite, brick and decorated wood surfaces. There is no comparison, as cement surfaces, undecorated, give us a dreary, sometimes dirty color that does not reflect the light, but absorbs it, and does not please the eye or appeal to the artistic temperament.

Desirable Qualities in Concrete.

"This little talk is not intended to condemn cement as a building material, but to advocate its use more than ever by improving upon what is done in that line to-day. If we can add to its strength, economy and fireproofing features a decorative rich color, and at the same operation make it moisture and strictly waterproof, we certainly will have a building material that cannot be duplicated the world over.

"But, you will say, we have it now to a certain degree. Some makers of cement add color while making the cement. Some engineers and architects specify waterproof powder or liquid to be added to the cement while mixing. This has not been proven a success, as anything of that nature added to cement decreases its tensile strength to such an extent that it is almost unsafe. It also affects the metal used for reinforcements. You cannot get the added color on waterproofing compounds mixed uniformly, and still have your

different shades, and this very often deteriorates the concrete body and leaves a bad surface for any kind of painting in the future."

Proper Way to Treat Cement Surfaces.

The question now arises: "What is the proper way to treat cement surfaces so as to get them decorated and waterproof?" This paper, as you can see, can be made a very lengthy one and requires careful study and research and would take up too much of your time. I am, therefore, going to touch upon the most important points only, and to give you the benefit of my experience along that line.

Washes, brushed on the finished surface of cement, made from waxes, gums, paraffin, etc., have been tried, but without complete success. It was now up to the paint manufacturer and painter to come to the rescue and make cement more popular and practical than ever as a material for building.

The paint maker and painter received very little encouragement from the engineer and cement maker when they first started on this problem, but finally, after years of experimenting upon all the different forms of concrete construction and under all conditions, and after a strenuous campaign of education and putting on sample jobs at enormous expense, the "big ones" in the cement business and "big builders" began to sit up and take notice. They now look upon the paintmakers and master painters as their best friends, as they have helped them out of many difficulties.

One Method That Was Unsatisfactory.

The first method used with paint was to first give the cement a washing with zinc sulphate and finish over this wash with a white lead and linseed oil paint, but the paint does not hold up, and it is now conceded that linseed oil paint is a failure for cement surfaces, as the alkaline salts in the cement attack and disintegrate it.

The last and most successful method and material used to-day, and conceded by chemists, engineers and concrete men to properly decorate and waterproof cement is a specially prepared paint, in several shades, to be brushed on by competent painters. The material contains no linseed oil or white lead and firmly adheres to the surface, filling small cracks and voids. Such material is made by different manufacturers under various proprietary names, and requires two or three coats, which can be put on damp surfaces, but should be put on dry surfaces, and does not cover more than 200 square feet to the gallon, one coat. This material gives the dead flat finish of cement, and adds to the cost of your contract between 35 and 40 cents per square yard of surface painted. The smooth or rough surface of the cement

finish has all to do with the cost of labor and material, as the stucco and rough cast surface requires more material and more brushing than the smooth troweled surfaces.

Up to this point I have touched upon cement surfaces of the outside of buildings only. But we have inside walls and floors which must be decorated and made damp-proof, and floors must be made so the cement does not dust off.

Inside cement walls are either in the damp or dry class. Damp walls, especially where there is a water pressure, such as along rivers and walls that get soaked with water after heavy rains, are a problem and should, if possible, be coated on the inside and outside with a paint made from asphaltum products and decorated afterward with regular cement coating. Inside cement walls that appear dry are not such a difficult problem and can be treated the same as ordinary walls.

In connection with the damp class of walls I will say there are on the market to-day several points recommended and made to apply on damp walls, but cannot say as to their success when used against water pressure.

Cement Floors.

Another class of surfaces are cement floors. We all know that when put to heavy wear they soon show defects, get slippery or throw off dust, especially where rich in cement and troweled to a granolithic surface. Giving the floor a cement wash will not answer for factories, shipping rooms or engine rooms. The acids in the lubricating oils attack the cement and destroy its bond. The texture of cement floors and the finish vary so much that we cannot make the same specifications for all of them. They must be tested with specially prepared paint and put on by some one who has made a special study of damp-proofing and decorating cement surfaces.

As a business proposition for the general contractor, I think it will be well to investigate this matter, as it is practically a new branch in the building business, and I am sure you can secure more cement contracts when you can say to your customers that you can overcome the unsightly color and non-uniform appearance of America's greatest building material.

the spirit of the age, or produce something equally original and sound.

Architecture being a constructional art, certain extents and limits have come to be recognized as desirable, but such terms as "proportion," "symmetry," "balance" and "the grand manner" (beloved of certain schools) become almost empty phrases if it is attempted to give effect to their meanings in practice without the power of a critical imagination.

It was considered that the general development of plan form would result in sounder architectural qualities.

THE ARCHITECT, HIS COMPETITION AND COMPETITORS.

Recently there was published in the San Francisco Call a quiet comment to this effect: "The board of award has now chosen plans for the new city library. Who is the first defeated architect who will break into print on the subject?"

The lines were written with no more pride of prophecy than would be attached to the assertion: "It is raining; the street will soon be very wet." It is inevitable that dampness follows rain and that incrimination follows an architectural competition.

All trades and professions have their peculiarities. Most of the professions are bands of defenders mutually protecting one another against the assaults and insinuations of the layman. A doctor will defend another doctor in public and insist that the surgeon did right when he took out the patient's left lung, though within the masonic sanctity of the clinic he will denounce the man as a murderer. The lawyer will stand on the high hilltop and summon the higher heavens to witness before the world that the udder on the bench is the most immaculate combination of wisdom and learning that ever honored the ermine, though in the mystic retreat of his office he will tear the reputation of the udder into scattering fragments. But the architect takes the world into his confidence when he finds something amiss in his profession. He is a frank fighter.

There has come a squabble over the plans of the San Francisco library, a competing architect asserting that the plans chosen by the committee were plagiarized.

Whatever truth there may be in that claim—and we do not pretend to pass judgment on the controversy—we must admit that the art of the architect is the art of plagiarism. There has been little new in architecture in the last hundreds of years—that is, in monumental architecture. There are several general types—classic, with its ramifications expressed by variations in the columns of Doric, Ionic, Corinthian; Gothic, of which we do not see a great deal of here about; the several types of renaissance.

It is high praise for an architect to say that his work is a true sample of the Doric, for instance. Yet it would not be high praise to say of a poet that he had faithfully copied "Hamlet" in writing a play; that the only difference between his drama and the original

COMMON SENSE IN DESIGNING

English Expert Gives Timely Advice on "Reason and Fashion in Architecture"

Mr. H. P. G. Maule, a Fellow of the Royal British Society of Architects, who has been talking to the Birmingham Architectural Association on the subject of "Reason or Fashion in Architecture," enters a plea—we all know how timely—for a more broad-minded conception of the possibilities of architecture "for buildings which will stand true to the purposes for which they were erected and which give some distinct visional indication of the uses for which they are intended, instead of outwardly smothering up all traces of plan and construction in a dress copied from architectural fashion-plate," as unfortunately is often the case to-day.

Does not that sound refreshingly like Professor Du Quesne's "Do not design anything you cannot construct, for construction is after all the end and aim of architecture."

The lecturer, according to the "Institute Journal," was of the opinion that with the exercise of a little more imagination it should be quite possible to erect a building of whatever material, amply fulfilling modern requirements in every way and still being sound architecture.

That we were as yet unable to express ourselves architecturally in steel might be attributed to the possibility that steel construction was as yet in a transitional stage, and therefore we smothered it up in other materials with which we have for many ages been familiar in the same way that the first motor-cars were made to resemble the horse-drawn vehicles and the first steel war ships

in the likeness of the sailing vessels of a former age.

He pointed out that the human character of a nation in the past always showed itself outwardly in its architecture, and that the architecture of a period, past or present, must have some prototype in the national life; therefore, considering the rapid changes and far-reaching discoveries which have almost completely revolutionized the life of our nation during the last hundred years, it is little wonder that our architecture has been patchy and full of fickle changes of fashion and reason; and we must be thankful that England does still possess a sane domestic architecture (although of largely diversified styles) whatever may be said of other phases.

The old styles, national, local and imported, are to us a glorious heritage, and as each age is, in the course of its evolution, in a large measure the outcome of what has gone before, therefore it would appear that it is in the right order of things that we of to-day should take from honest old styles and absorb to ourselves those features and modes of architectural expression which are applicable to modern conditions and requirements without becoming mere copyists.

Slavish copies of old work must be condemned as the height of foolishness. What is required of present-day architects is a greater power of imaginative conception—a condition of mind which, while accepting what is best from old work, gives to a building in all its features a clear indication of

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2 x 3-Ft. SIGNS 12 CENTS EACH

\$12.00 per 100. Check with the order. Other sizes 1½ x 2 ft. to 3 x 4 ft. proportionate prices. Send for an illustrated folder.

Independent Printing Companies of U. S.

McLachlen Bank Building, Washington, D. C.

was that the deaths are due to automatic revolvers and bichloride of mercury rather than to daggers and the subtle poisons of the dark ages.

The tower of the San Francisco Ferry building is a very close copy of a tower in Seville, but that does not detract from the reputation of the architect who designed the graceful elevation. A section of the Children's Hospital in California street, is practically a replica of a corresponding portion of a famous Italian building—in Florence, if our memory serves—but that is not an indictment against the architects.

It would be a very remarkable fact if the new city library were not like some other building.

Variety is desired in architecture, as in every other art, and the architects give it, showing their ingenuity by taking ideas and designs from here and there—Athens, Rome, Florence, Seville, Cologne, New York—some say from Detroit—blend those suggestions together and produce a structure that represents their individualities.

CLAIMS CRAFTSMANSHIP IS DYING.

William L. Price, in a paper read before the Philadelphia T-Square Club, described the trend of modern architecture as toward diagrams and away from craftsmanship. There was a tendency, he claimed, in studying the work of the Old World architects, to find out what they did, rather than what they wrought. He said: "We lack sincerity in our present day expression. We detail our high buildings as if every foot were directly before us, while we should consider that the base, to be successful, must be treated to be seen from across the street, and the towering top from across the city.

"And what of our ornament? It is to produce color and values, and we add ornament and projections simply to obtain the color resulting from the contrast of light and shade. Yet even this process fails when these details are so far removed from the eye that the effects are lost through atmosphere. The forms become unintelligible and the color dissipated. Then why not, to get the effect we strive for, adopt the use of ceramics? It is true that at a distance color and fine detail do not combine, and detail alone is lost in indefiniteness. Color alone we can fall back upon. Then when we make use of this judiciously, applying it in such mass and tones as successfully combine to produce a harmonious feature in design, we will arrive at a successful architectural treatment of our

high structures. There is vast opportunity still to express our architecture as a living art. The educated man's idea of art is to pursue the art that has been, while the artist and craftsman are forever searching for the art that is going to be."—"Exchange."

TIME TO BUILD HOMES.

In discussing the prices of building materials and the cost of labor, a writer in a recent issue of the "Manufacturers' Record" points out that as architects and contractors have more time just now to plan and carry out contracts than in periods of activity, the present is the time to build. The man who wants a home and has money with which to build it can do it now to better advantage than when prosperity comes and at a much lower cost and with more care and attention on the part of contractors and mechanics.

"Thousands and tens of thousands of men in this country are intending to build homes for themselves, but are waiting for what they think will be a more propitious moment, when everybody is an optimist rather than a pessimist. When they do undertake to build every item will cost them more, and they will find great difficulty in securing as much attention in construction work and in the equipment of their homes as could be had now.

"This is pre-eminently the time when every man who expects to build a home, a store, or an office building, if he has money, should do it. This is the time when every manufacturing enterprise which knows that it needs new machinery or the enlargement of its plant, and has the money available, should do the work now. This is the time when our municipalities should press as vigorously as possible all of their improvements, in order to get the benefit of the lower prices of materials now prevailing as compared with boom periods. Almost over night a change in business could be brought about, if people who are able to do this building and construction work would undertake it now."

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scripper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

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Artesian Well Drilling Co.,
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Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
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Keystone Blue Paper Co.,
910 Filbert st., Phila.

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Mitchell Bros., 2125 Race st., Phila.
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W. E. Wark Co., 1737 Filbert st., Phila.
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Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
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Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co.,
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Richards-Wilcox Mfg. Co.,
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Drawing Materials.

Keystone Blue Paper Co.,
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Warren-Knight Co., 136 N. 12th st., Phila.
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Baird-Osterhout Construction Co.,
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Philadelphia Electric Co.,
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Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

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Anchor Post Iron Works,
Real Estate Trust Bldg.
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Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
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Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

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Andrew Pinkerton, 3034 W. York st., Phila.
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Borden Stove Co.,
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United Gas Improvement Co.,
Broad and Arch sts., Phila.

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H. B. Smith, 1225 Arch st., Phila.

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American Clothes Dryer Co.,
141 W. 19th st., New York City

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Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

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The Fairbanks Co., 7th and Arch sts., Phila.

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Richards-Wilcox Mfg. Co.,
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R. J. Carrick, 2016 Ranstead St., Phila.

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Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts.

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Camden Pottery Co., Camden, N. J.

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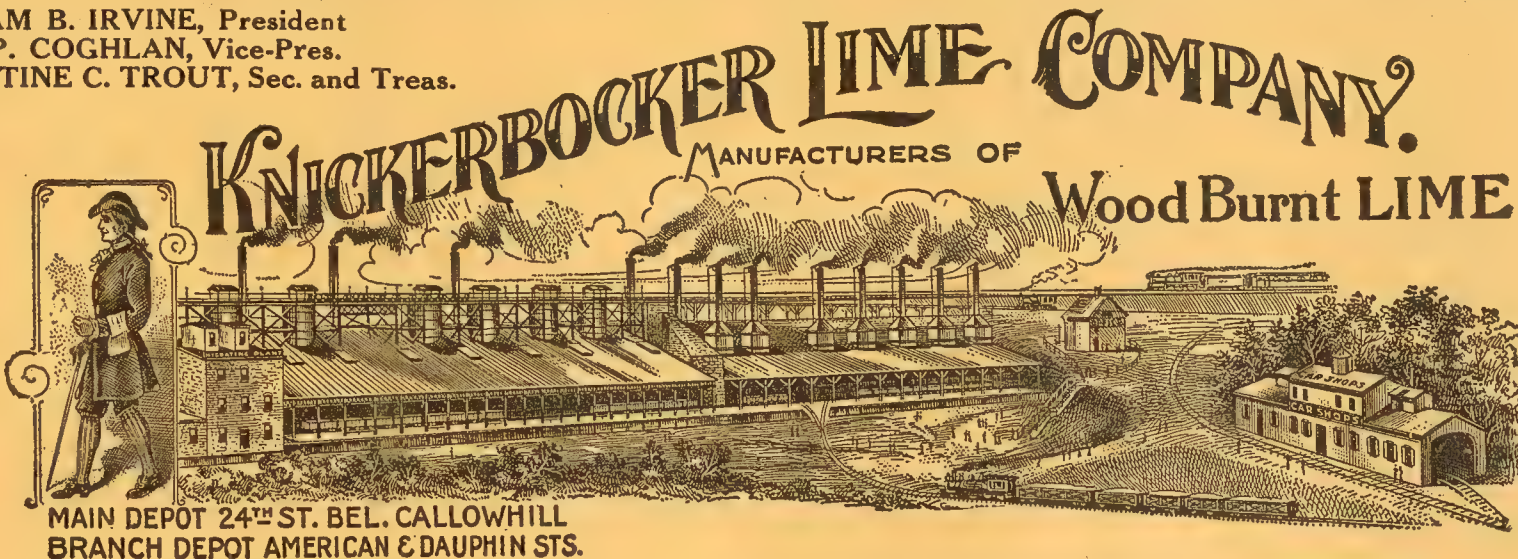
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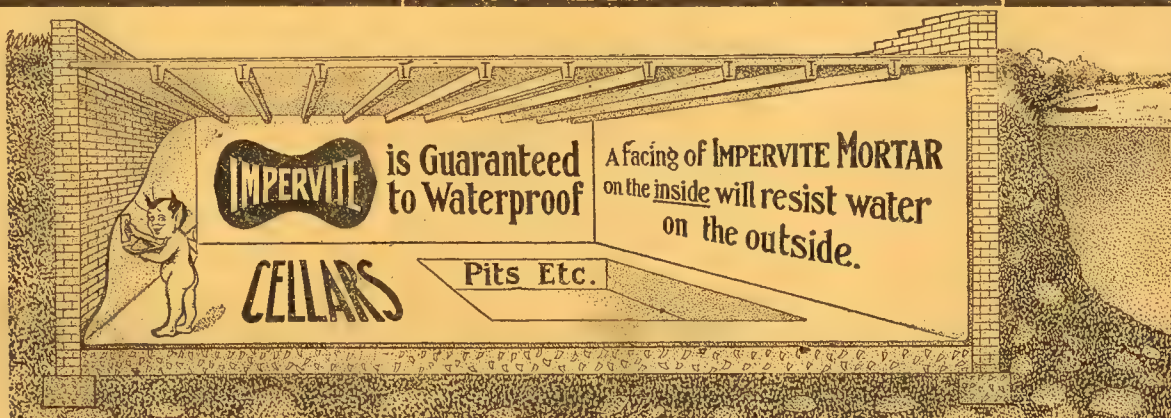
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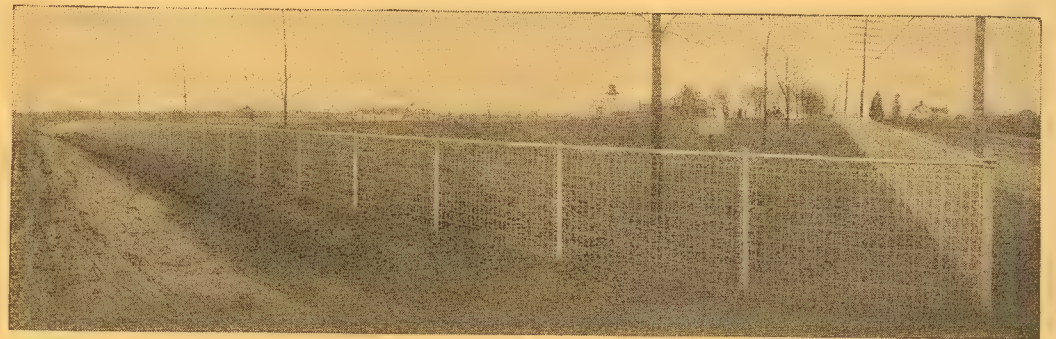
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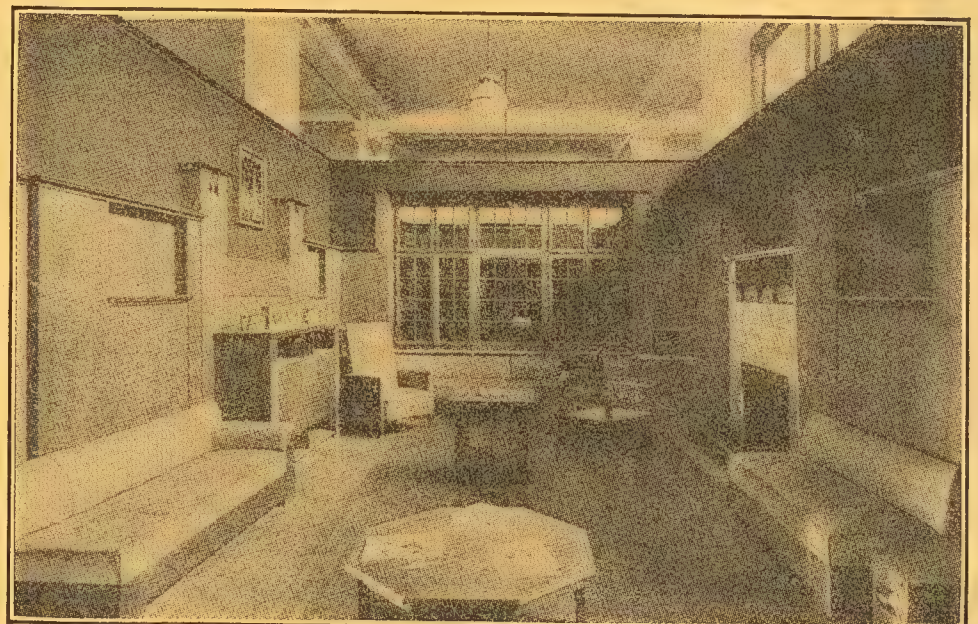
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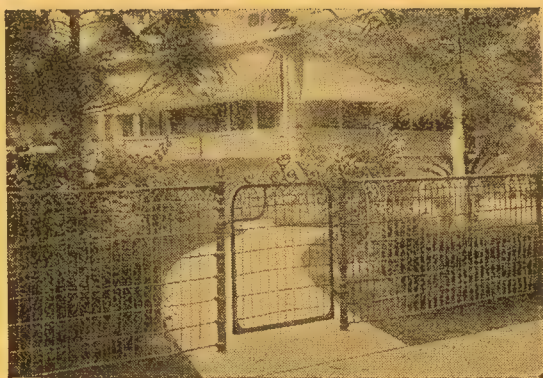
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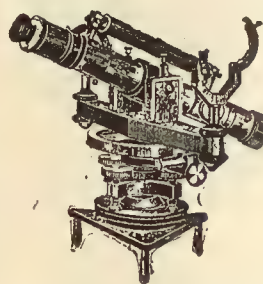
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Vol. XXIX., No. 35.

PHILADELPHIA, WEDNESDAY, SEPTEMBER 2, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory, Thompson and Cumberland streets, Philadelphia. Architects, Charles Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Abbott Estate, Broad and Race sts., Philadelphia. Brick, 2 stories, 60x80 feet, slag roof (heating and lighting reserved). Revised plans in progress.

Parish House, Germantown avenue and Greene street, Germantown. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Trinity Lutheran Church, care of Rev. L. De Yoe, No. 5300 Germantown avenue, Philadelphia. Brick and plaster, 2½ stories, 60x90 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Residence, Conshohocken, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, H. Wood, Jr., 1016 Spruce street, Philadelphia. Stone, 2½ stories. Plans in progress.

Factory Building, Allegheny avenue and Rosehill street, Philadelphia. Architect, Ivan B. Scovill, care of owners. Owner, Industrial Tape Mills Co., Jasper and Huntingdon sts., Philadelphia. Brick, 3 stories, 73x225 feet, slag roof, metal sash and frames. Owner has received revised bids.

Play House, Jamestown, R. I. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner's name withheld. Frame, 1 story, 25x30 feet, slate roof, electric lighting (heating reserved). Architects have received revised bids.

Factory, Fifty-ninth street and Woodland avenue, Philadelphia. Architect, Harry Parker, Drexel Building, Philadelphia. Owner, Fairmount Electric and Manufacturing Co., 2203 Pearl street, Philadelphia. Brick, 1 story, 40x125 feet, slag roof (heating and lighting reserved). Architect has received bids.

Theatre, Conshohocken, Philadelphia. Architects, Hoffman Co., Juniper and Market streets, Philadelphia. Owner, name withheld. Brick and terra cotta, 2 stories, 70x90 feet, slag roof, steam heating, electric lighting. Plans in progress.

Hotel and Stores, Fifty-ninth and Market streets, Philadelphia. Architects, Hoffman Co., Juniper and Market streets, Philadelphia.

Owner, Norris Realty Co., Parkway Building, Philadelphia. Brick and terra cotta, 5 stories, 75x125 feet, slag roof, steam heating, electric lighting. Plans in progress.

High School (alt. and add.), Broad and Green streets, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and terra cotta, 1 story, 50x90 feet, composition roof, metal lath (heating and lighting, separate bids). Owners have received bids.

Club House, 1616-1620 Master street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owners, Young Men's Hebrew Association, care of Morris Wolf, Secretary. Brick, steel and terra cotta, 4 stories, 160x100 feet, slag and tile roof, metal lath, waterproofing and damp-proofing (heating and lighting separate bids). Architect taking bids, due September 10th. The following are figuring: William R. Dougherty, 1610 Sansom street; Lam Building Co., 1001 Wood street; Freund Seidenbach, Bulletin Building; H. E. Baton, Twelfth and Sansom streets; J. Sims Wilson, 1125 Brown street; A. R. Raff, 1635 Thompson street; Fidelity Const. Co., Heed Building; A. Whitehead, Inc., 1624 Latimer street; Irwin & Leighton, 126 North Twelfth street; James G. Doak & Co., Crozer Building; Doyle & Co., 1519 Sansom street; J. E. & A. L. Pennock, Land Title Building; F. A. Havens Co., 845 North Nineteenth street, Philadelphia; Chas. Gilpin, Harrison Building.

Marine Barracks, League Island, Philadelphia. Architect, private plans. Owner, U. S. Government, care of Quarter Master Department, League Island, Philadelphia. Brick and granite, 4 stories, 99x206 feet, slate roof, metal lath, waterproofing, consists of fire repairs, electric lighting (heating central plant). Owner taking bids, due September 7th. Edw. Fay & Sons, 2 South Mole street; Barclay White Co., Perry Building; Thomas Reilly, 1616 Thompson street; John McKenna & Sons, 1032 Race street; Samuel J. Rea & Sons, 1608 Fairmount avenue; Brown-King Const. Co., Harrison Building; William R. Dougherty,

1610 Sansom street, all of Philadelphia, are figuring.

High School, Oxford and Wakefield streets, Frankford, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owners, Board of Education, City Hall, Philadelphia. Brick and stone, fireproof, 4 stories, 200x295 feet, slate roof (heating and lighting separate bids), waterproofing, enameled brick, metal frames and sash, metal lath. Owners have received bids.

Factory, Eighty-fourth and Eastwick avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owners, Eastern Lamp Co., 227 Gaskill street, Philadelphia. Brick, 1 story, 40x125 feet, slag roof, steam heating, electric lighting. Architect taking bids, due Sept. 10th. Philip Hainbach Cont. Co., Twenty-sixth and Thompson streets; Freund-Seidenbach Co., Bulletin Building; Joseph Bird Co., 213 North Eleventh street; F. Bennett & Son, Drexel Building; A. L. Fretz & Sons, 1222 Chancellor street, all of Philadelphia, are figuring.

Residences (9), Sixty-third and Chestnut streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James N. Mitchell, 4 South Markoe street, Philadelphia. Brick and plaster, 2 stories, 16x65 feet, tile and slag roof, hot water heating, electric lighting, oak floors. Owner taking sub-bids.

Church, Sixth and Erie avenue, Philadelphia, \$25,000. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owners, Italian R. C. Church, Rev. Paul Gentile, 726 Erie avenue, Philadelphia. Stone, 1 story, 50x98 feet, slate roof, steam heating, electric lighting. Revised plans in progress.

Store House (add.), Frankford, Philadelphia. Architect, private plans. Owner, U. S. Government, Frankford Arsenal, Frankford, Philadelphia. Brick, 1 story, 47x137 feet, slate roof, waterproofing. Owners taking bids, due September 21st. The following are figuring: H. H. Wehmeyer, 1004 West Lehigh avenue; Burd P. Evans Co., Thirteenth and Wallace streets; F. W. Van Loon, Denckla Building; E. F. Fender, Land Title Building; A. L. Carhart, Hale Building; J. W. Emery,

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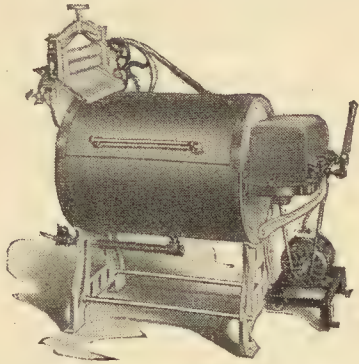
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1524 Sansom street; Ketcham & McQuade, 1029 Brown street; James Connor, 2848 Frankford avenue, all of Philadelphia.

Office (alt. and add.), Fifth and Chestnut streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Drexel Building, Philadelphia. Consists of interior alteration and addition, marble work, tile work, steam heating, electric lighting metal lath. Architects have received bids.

Residence (alt. and add.), 2352 North Broad street, Philadelphia. Architect, C. E. Oelschlager, Harrison Building, Philadelphia. Owner's name withheld. Stone and brick, 3 stories, slag roof, hot water heating, electric lighting, oak floors, metal lath. Architect has received bids.

School, Cheltenham, Pa., \$25,000. Architect, H. C. Wise, Franklin Building, Philadelphia. Owners, Board of Education, care of J. Holden, Fox Chase, Philadelphia. Brick, 2 stories, 52x75 feet, slate roof (heating and lighting separate bids). Owner has received bids.

Factory Building, Allegheny avenue and Rosehill street, Philadelphia. Architect, Ivan B. Scovill, care of owners. Owners, Industrial Tape Mills Co., Jasper and Huntingdon streets, Philadelphia. Brick, 3 stories, 73x225 feet, slag roof, metal sash and frames. Owners have received revised bids.

Store and Office Building, 304 Arch street, Philadelphia. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owners, Friends' Book Store, on premises. Brick and steel, fireproofing, 6 stories, 40x80 feet, slag roof (heating and lighting reserved). Architects taking revised bids, due September 2nd. R. C. Ballinger & Co., 218 North Thirteenth street; J. E. & A. L. Pennock, Land Title Building; Harrison C. Rea Co., 1027 Wood street, all of Philadelphia, are figuring.

Residence (alt. and add.), 1931 North Thirty-third street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Harry Sack, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting, oak floors. Revised plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Control House, Queen Lane, Germantown, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Water, City Hall, Philadelphia. Brick, 1 story, 18x45 feet, slag roof (heating and lighting reserved). Lowest bid submitted by McCloskey-Bahls, Hale Building, Philadelphia, \$4,298.

Boiler House (alt. and add.), Belmont Pumping Station, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Water, City Hall, Philadelphia. Brick, 1 story, slag roof (heating and lighting reserved). Lowest bid submitted by McCloskey-Bahls, Hale Building, Philadelphia, \$14,444.

Factory, Thirteenth and Hamilton streets, Philadelphia. Architect, private plans. Owner,

Redman Real Estate Co., on premises. Brick and concrete, 3 stories, 100x150 feet, tin roof, electric light. Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Warehouse (add.), Ninth and Ontario sts., Philadelphia, \$3,000. Architect, private plans. Owner, Surpass Leather Co., on premises. Corrugated iron and steel, 1 story, 50x60 feet, slag roof. Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Club House (alt. and add.), 1312-14-16 North Broad street, Philadelphia, \$150,000. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owners, Loyal Order of Moose, No. 54, on premises. Brick and terra cotta, fireproof, 4 stories, 74x190

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feet, slag and tin roof, steam heating, electric lighting, composition floors, metal lath, damp-proofing. Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia. (Note change.)

Mill Building (add.), 2415-17 North Howard street, Philadelphia, \$15,000. Architects,

Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Thomas L. Leedom Estate, on premises. Brick, 4 stories, 34x45 feet, slag roof, metal sash and frames (heating and lighting reserved). Contract awarded to Barclay White Co., Perry Building, Philadelphia.

PENNSYLVANIA Construction News

Store and Theatre, Allentown, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Fred B. Gerner, 504 Hamilton street, Allentown, Pa. Brick and terra cotta, 3 stories, 82x230 feet, slag roof, metal lath, dampproofing (heating and lighting reserved). Architects taking bids due September 7th. The following are figuring: Ochs Construction Co., Butz & Clader, Ritter & Smith, W. H. Gangewere, W. A. Stein & Co., Robert S. Rathbun, George S. Hardner, all of Allentown, Pa., and F. Roe Searing, Philadelphia.

Nurses' Home, Allentown, Pa. \$60,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Allentown Hospital Association, Allentown, Pa. Brick and stone, 3½ stories, 45x190 feet, slate and slag roof, electric lighting, hardwood and tile floors (heating reserved), metal lath. Architects taking bids.

Dyeing House (add.), Allentown, Pa., \$4,000. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown. Owner, National Silk Dyeing Co., Allentown, Pa. Brick, 1 story, 36x60 feet, slag roof, steam heating, electric lighting, concrete floors, sky-lights, ventilators. Architects ready for bids.

Pump and Filter House, Allentown, Pa., \$6,000. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown, Pa. Owner, National Silk Dyeing Co., Allentown, Pa. Concrete and brick, 1 story, 47x130 feet, slag roof, steam heating, electric lighting, concrete floors, sky-lights, dampproofing. Architects ready for bids.

School, Emaus, Pa., \$30,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Board of Education, care of C. F. Wagner, Secretary, Emaus, Pa. Brick, 2½ stories, 44x144 feet, slate roof, steam heating, electric lighting. Plans in progress.

Bungalow, North Delaware River road, Easton, Pa. Architect, William Michler, Easton, Pa. Owner, William J. Jacobs, Easton, Pa. Brick, 2 stories, 48x57 feet, slate roof, hot air heating, electric lighting, tile and hardwood floors. Owner is taking sub-bids on all lines.

Residences (4), Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, Israel Fessler, Wyomissing, Pa. Brick and frame, 2½ stories, 16x34 feet, shingle roof, hot air heating, gas and electric lighting, wood and tile floors. Plans in progress.

Residences (8), Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owners, Keiser, Boas & Walbert, Reading, Pa. Hollow tile and cement, 2½ stories, 16x34 feet, slate roof, hot air heating, gas and electric lighting; tile floors. Plans in progress.

Residence, Wyomissing, Pa., \$20,000. Archi-

teet, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Koller, Wyomissing, Pa. Brick, 2½ stories, 50x50 feet, tile roof, hot water heating, combination lighting, hardwood and tile floors, dampproofing. Plans in progress.

Church, Douglasville, Pa., \$7,000. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, J. W. Fisher, Chairman, Union Sunday School Committee, Douglasville, Pa. Brick, 1½ stories, 30x60 feet, slate roof, gas lighting (heating reserved). Plans in progress.

Residence, Monterey, Pa. Architect, Wayne High, Reading, Pa. Owner, Robert D. Heffner, Monterey, Pa. Brick and stucco, 2½ stories, 40x30 feet, tile roof, electric lighting. Plans in progress.

Bungalow, Philadelphia Pike, below Pottstown, Pa. Architect, George L. Gerhard, 619 Penn st., Phila. Owner, William L. Hampton, Stowe, Pa. Brick and frame, 1½ stories, 32x34 feet, shingle roof, hardwood floors (lighting reserved). Owner ready for sub bids.

Residence, North Side, Reading, Pa., \$4,500. Architect, Wayne High, 420 Penn street, Reading, Pa. Owner, Fred J. Villforth, 115 Franklin street, Reading, Pa. Brick, 2 stories, 30x34 feet, slate roof, hot water heating, combination lighting, tile floors. Architect taking sub-bids.

Residence (alt. and add.), Muhlenberg Township, Pa., \$1,500. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Wilmer Jones, Muhlenberg Township, Pa. Frame and stucco, 2½ stories, 20x22 feet, slate roof. Architect has received bids.

Church and Sunday School Building, Allentown, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. James' Reformed Church, Allentown, Pa. Stone, 1½ stories, 40x100 feet and 35x100 feet, slate roof, steam heating, combination lighting, hardwood floors, metal lath. Architect taking bids due September 8th. The following are figuring: Butz & Clader, R. S. Rathbun, W. H. Gangewere, Ochs Construction Co., W. A. Stein Co., and Gery & Peters, all of Allentown, Pa.

School Building, Coaldale, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Board of Education, Coaldale, Pa. Brick, 2 stories and basement, 8 class rooms and auditorium, slag roof, electric lighting. Plans in progress. Bids in ten days.

Sanitarium (alt. and add.), Cresson, Pa. Architect, George S. Welsh, Wilkes-Barre, Pa. Owners, Department of Health, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia. Brick, 3 stories, asbestos roof, metal ceilings, kalamein doors and trimmings (steam heating, electric lighting separate bids), consists

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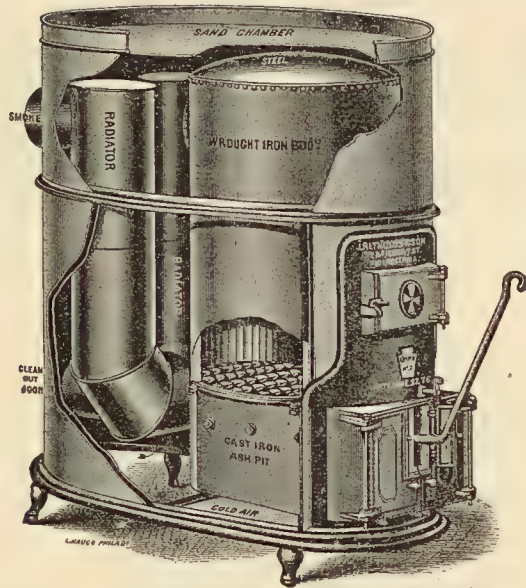
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of addition to main building. Owners have received bids.

Sanitarium (add.), Cresson, Pa. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, State of Pennsylvania, Department of Health and Charities, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia. Stone, fireproof, 4 stories, 100x200 feet, consists of westward building and connecting building, slate roof, metal lath, waterproofing (heating, ventilating and plumbing separate bids). Owners have received bids.

High School (add.), Lansdowne, Pa., \$60,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2 stories, 120x68 feet, slate roof, steam heating, gas and electric lighting, metal lath, dampproofing and waterproofing. Owners taking bids, due September 8th. The following are figuring: Henry L. Brown, 1714 Sansom street; F. Roe Searing, Perry Building; Monaghan & Losse, 214 South Twelfth street; Wilbert Beaumont, Stephen Girard Building; H. H. Wehmeyer, 1004 West Lehigh avenue; Alex. Chambley, 243 South Tenth street; James H. Wells, Heed Building; George F. Pawling Co., Broad and Vine streets; Metzger & Fisher, Denckla Building; Joseph Bird Co., 213 North Eleventh street, all of Philadelphia; Flounders Brothers, Media, Pa.; Lansdowne Construction Co., Lansdowne, Pa.; Peterson Construction Co., Clayton, N. J.; Charles T. Moore, Lansdowne, Pa.; William J. Elliott, Coatesville, Pa.

Residences (2), Highland Park, Pa. Architect, H. Taylor Smith, 6124 Jefferson street, Philadelphia. Owner, Victor A. Hengst, Llanerch, Pa. Stone and stucco, 2½ stories, 32x35 feet, shingle roof, hot water heating, electric lighting. Owner has received bids.

Bungalow, Rawlinsville, Pa., \$4,000. Architects, Harman & Davis, No. 56 North Duke street, Lancaster, Pa. Brick, 1½ stories, 30x35 feet, slate roof, hot water heating. Owner will take sub-bids.

Residence and Store (alt. and add.), Lancaster, Pa., \$15,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Brick, 3 stories, 33x150 feet, slag roof, steam heating, electric lighting, tile work, metal ceilings. Owner taking bids.

Theatre and Stores, Allentown, Pa., \$75,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Fred B. Gerner, No. 504 Hamilton street, Allentown. Brick and terra cotta, 3 stories, 82x230 feet, slag roof, metal lath, dampproofing (heating and lighting reserved), composition floors. Architect taking bids, due September 7th. F. Roe Searing, Perry Building, Philadelphia, is figuring.

Bungalows (8), Norristown, Pa. Architect, private plans. Owner, Lewis A. Irons, Norristown, Pa. Brick and plaster, 1½ stories, 20x40 feet, shingle roof, hot water and steam heating, electric lighting. Plans in progress.

Residence, Larchmond, Pa. Architect, A. B. Gill, 1655 North Fifty-sixth street, Philadelphia. Owner, H. W. Bowman, care of architect. Frame, 1½ stories, 26x52 feet, shingle roof, hot air heating, electric lighting. Architect taking sub-bids.

Residence, Radnor, Pa., \$40,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Mills, Bryn Mawr, Pa. Stone and plaster, 2½ stories, 138x77 feet, tile roof, electric lighting, hardwood floors (heating, lighting and plumbing reserved). Architect taking bids, due September 8th. Thomas M. Seeds, Jr., 1207 Race street; M. W. Young, Overbrook, Philadelphia; George J. Watson, 905 North Marshall street; J. S. Cornell & Sons, Land Title Building; A. Raymond Raff, 1635 Thompson street, all of Philadelphia, are figuring.

High School, Kingston, Pa., \$125,000. Architects, Sturdevant & Poggi, Wilkes-Barre, Pa. Owners, Board of Education. Brick and terra cotta, 3 stories, 186x69 feet, slag roof, direct and indirect steam heating. Plans in progress.

PENNSYLVANIA**Contracts Awarded**

Picture Theatre, Coplay, Pa., \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown, Pa. Owner, John L. Dugan, Coplay, Pa. Brick, 1 story, 30x89 feet, slag roof, steam heating, electric lighting, concrete floors, tile work. Contract awarded to Zellner Co., Coplay, Pa.

High School, Allentown, Pa., \$250,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Board of Education, Allentown, Pa. Brick, steel and terra cotta, fireproof, 3 stories (heating and electric work

separate bids), metal lath, tile and marble work, slate blackboards. Lowest bid submitted by Stein & Co., Allentown, Pa., \$242,500.

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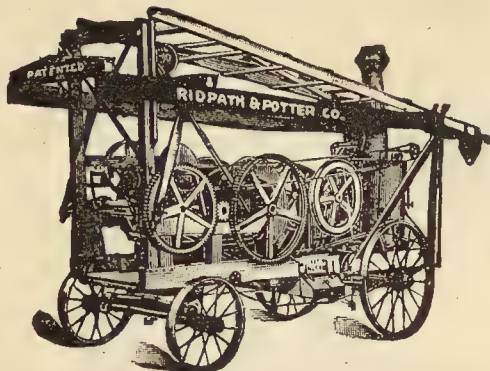
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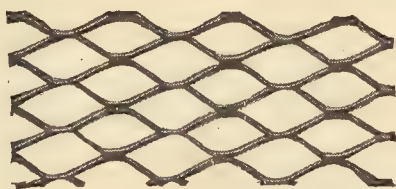
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NEW JERSEY Construction News

Apartment House, Ventnor, N. J., \$175,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, John Stafford, 1112 Chestnut street, Philadelphia. Brick, concrete and steel, 6 stories, 165x94 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, metal lath, waterproofing and dampproofing and elevators. Plans about completed. Owner will take sub-bids soon.

Infirmity and Laboratory, Glen Gardner, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, Department of Correction and Charities, Trenton, N. J. Brick and plaster, 2 stories, 73x73 feet, composition roof, steam heating, electric lighting, metal lath, dampproofing. Owners have received bids.

Dining Hall (add.), Glen Gardner, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, Department of Correction and Charities, Trenton, N. J. Brick and plaster, 2 stories, 37x48 feet, composition roof, steam heating, electric lighting, metal lath, dampproofing. Owners have received bids.

Residence, Camden, N. J. Architects, Borzner & Wood, 721 Walnut street, Philadelphia. Owner, J. N. Wilkins, Bourse Building, Philadelphia. Frame, 2 1/2 stories, 25x32 feet, shingle roof, hot air heating, electric lighting, oak floors. Plans completed. Owner will take bids.

Residence, Chelsea avenue, Atlantic City, N. J. Architect, J. P. Klings, 1012 Walnut street, Philadelphia. Owner, John P. Slate, Chelsea avenue, Atlantic City, N. J. Brick and frame, 2 1/2 stories, 33x45 feet, slate roof, electric lighting, hot water heating, hardwood floors, tile work. Builder, Charles P. Tilton, 9 South Pennsylvania avenue, Atlantic City, N. J., is taking sub-bids. Plans can be seen at office of the architect.

Store and Factory, Merchantville, N. J. Architect, E. A. Westover, Keith's Building, Philadelphia. Owner, Arthur E. Craig, Merchantville, N. J. Brick, 1 story, 30x60 feet, slag roof, electric lighting. Plans in progress.

Shipping Building, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 6 stories, 141x273 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, dampproofing, metal sash and frames, safety treads, elevators. Architects taking revised bids, due September 10th. Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; Harrison C. Rea Co., 1027 Wood street, Philadelphia, are figuring.

School Building, Millville, N. J. Architect, Arnold H. Moses, 138 South Fourth street, Philadelphia. Owners, Board of Education, Millville, N. J. Brick and stone, 2 stories, 65x130 feet, slag roof, steam heating, electric

lighting, safety treads. Plans in progress. Ready for bids in ten days.

Church (alt. and add.), Trenton, N. J., \$10,000. Architects, W. W. Slack & Sons, Trenton, N. J. Owner, Christ Episcopal Church, care of Rev. Trenboth, Trenton, N. J. Stone, 1 story, 20x60 feet, slate roof, electric lighting, tile floors. Architects taking bids. The following are figuring: Burton & Burton, Sidney La Rue, Scott & Day, I. Harper Clayton, Lewis Randell, William J. & J. H. Morris, all of Trenton, N. J.

Church, Raritan, N. J., \$25,000. Architect, W. P. Endebrock, 135 East State street, Trenton, N. J. Owner, Father Ketterer, Raritan, N. J. Rough Tex. brick, terra cotta and limestone, 50x110 feet, slate roof, combination lighting, hardwood floors, metal lath, waterproofing and dampproofing. Architect taking bids, due September 10th. The following are figuring: Philip Hickey, Somerville, N. J.; John Conover, Hall Bros., Charles Wideneir, John Lewis, Joseph Sheek, all of Sayreville, N. J., and Mather & Sons, Trenton, N. J.

Residence, Trenton, N. J. Architect, W. Theines, Commonwealth Building, Trenton, N. J. Owner, George Gambles, Trenton, N. J. Brick and frame, 2 1/2 stories, 24x26 feet, slate roof, hot water heating, combination lighting, hardwood floors. Plans in progress.

Pavilions (2) Morris Plains, N. J., \$9,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, New Jersey State Hospital, care of Bowman Warden, Morris Plains. Brick and frame and glass, 1 story, 40x60 feet, slag roof, electric lighting. Owners taking bids, due September 24th. Will advertise for bids this week.

Store and Factory, Merchantville, N. J. Architect, E. A. Westover, Keith Building, Philadelphia. Owner, Arthur E. Craig, Merchantville, N. J. Brick, 1 story, 30x60 feet, slag roof, steam heating, electric lighting. Owner taking bids, due September 3rd. F. Burgard, 721 Walnut street, Philadelphia; Martin James, Frank Bennett, George Tilton, all of Merchantville, N. J., and George W. Shaner, Palmyra, N. J., are figuring.

New Jersey Contracts Awarded

Post Office (alts.), Camden, N. J. Architect, private plans. Owner, United States Government, C. P. Sayres, Custodian, Camden, N. J. Consists of partitions and other screens, electric lighting. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Phila.

Boiler Room (alt. and add.), New York avenue, Trenton, N. J. Architect, W. Thienes, Commonwealth Building, Trenton, N. J. Owners, Eureka Flint and Spar Co., on premises. Brick, 1 story, 40x40 feet, slate roof, electric



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lighting, concrete floors, ventilators. Owners will take sub-bids on all lines.

Residence (alt. and add.), 417 Bellevue avenue, Trenton, N. J., \$10,000. Architect, William A. Poland, 11 West State street, Trenton, N. J. Owner, Mrs. Charles E. Hewitt, 417 Bellevue avenue, Trenton. Brick and stucco, 3½ stories, slate roof, hot water heating, combination lighting, hardwood and tile floors. Contract awarded to 632 Brunswick avenue, Trenton, N. J.

Residence, Bellevue avenue, Trenton, N. J., \$14,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owner, Walter F. Smith, Bellevue avenue, Trenton, N. J. Brick and stone, 2½ stories, 42x42 feet, slate roof, vacuum heating, combination lighting, hardwood floors and tile floors, metal lath, vacuum cleaner system, dumbwaiters. Contract awarded to W. J. & J. H. Morris, Trenton, N. J.

MARYLAND Construction News

Moving Picture Parlor, Monument street and Patterson Park avenue, Baltimore, Md., \$9,150. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owners, Cortes Amusement Co., 2900 West North avenue, Baltimore, Md. Brick, 1 story, 30x130 feet, slag roof, steam heating, electric lighting, concrete floors, tile and marble work. Owner, G. A. Pulus, 2901 West North avenue, is taking sub-bids on all lines.

Dwellings (15), 1301-37 Herkmeir street, Baltimore, Md., \$13,500. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore, Md. Owner, August Weber, 1315 North Calvert street, Baltimore, Md. Brick, 2 stories, 13x42 feet, tin roof, hot air heating, electric lighting. Owner will take sub-bids on all lines.

Club House, Glen Ocho, Md. Architects, Hornblower & Marshall, 1410 H street, Washington, D. C. Owners, Sycamore Island Boat Club, Washington, D. C. Frame, 1 story, shingle roof, steam heating, electric lighting. Plans in progress.

Residence, Chevy Chase, Md., \$9,000. Architect, B. Stanley Simmons, 1340 New York avenue, Washington, D. C. Owner, W. H. Price, Washington, D. C. Frame and stucco, 2½ stories, 34x42 feet, slate roof, steam heating, electric lighting. Plans in progress.

Church, Hyattsville, Md., \$12,000. Architects, Hunter & Bell, 411 Southern Building, Washington, D. C., and Rich & Fitzsimmons, 321 Bond Building, Washington, D. C. Owners, Pinkney Memorial Protestant Episcopal Church, Hyattsville, Md. Brick and limestone, concrete, iron and steel, 32x43 feet, wing 77x35 feet, new 50-foot tower, gymnasium equipment in basement, slate roof, steam heating, electric lighting. Plans in progress.

Church and Sunday School, Hagerstown, Md., \$15,000. Architect, not selected. Owners, Christ Reformed Church, Hagerstown, Md. Brick, slate roof, steam heating, electric lighting. Too early for details.

Apartment House (alt. from Residence), 1319 Linden avenue, Baltimore, Md., \$10,000. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Owner, J. P. W. McNeal, 1319 Linden avenue, Baltimore, Md. Brick, 3 stories, 24x65 feet, steam heating, electric lighting, tile work, hardwood floors. Owners taking bids. A. F. West, 15 East Fayette street; Cowan Building Co., 106 West Madison street; John S. Moke, 1825 West Balti-

more street; William Ferguson & Bro., 214 Clay street; Sladfelter & Chambers, 2072 Woodberry avenue; W. B. Mattox, Samuel Spreat, 203 North Pine street, all of Baltimore, Md., are figuring.

Store Building, Fallsway, near Baltimore street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Louis Miller, 5-7 Lloyd street, Baltimore, Md. Brick, 3 stories, 30x75 feet, slag roof, steam heating, electric lighting. Plans in progress.

Store and Apartments, Annapolis, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Philip Miller, Annapolis, Md. Brick, steel, 3 stories, 46x120 feet, slag roof, hot water heating, electric lighting. Plans in progress.

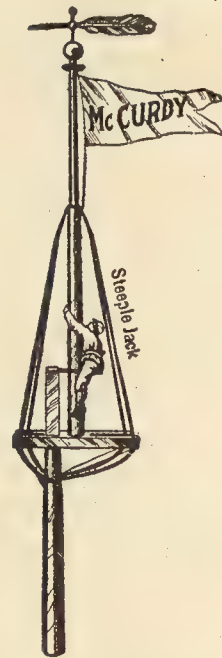
Residences (2), Ten Hill, Md., \$6,000. Architect, C. N. Friz, Munsey Building, Baltimore. Owners, Ten Hill Corporation, Title Building, Baltimore, Md. Frame, 2 and 2½ stories, slate roof, steam heating, electric lighting. Plans in progress.

Church, Ten Hill, Md., \$9,000. Architect, C. N. Friz, Munsey Building, Baltimore, Md. Owner, Trinity Church, Ten Hill, Md. Brick, slate roof, hot water heating, electric lighting. Plans in progress.

Bank (alts.), Salisbury, Md., \$8,000. Architects, Owen & Sisco, Continental Building, Baltimore. Owner, Salisbury National Bank, Salisbury, Md. Stone and brick, tin roof, steam heating, electric lighting, metal lath, tile work, concrete. Architects taking bids. Edw. Walters & Co., 509 North Charles street, and Consolidated Eng. Co., Calvert Building, Baltimore, are figuring.

Bungalow, Marley, Anne Arundel County, Md. Architect, Henry J. Tinley, 312 North Charles street, Baltimore. Owner, P. F. Obrecht, 1123 Light street, Baltimore. Frame, 1½ stories, slate roof, steam heating, electric lighting. Architect taking bids. John A. Sheridan, 35 East North avenue; Henry Pier-son Sons Co., 1000 Olive street, Baltimore, are figuring.

Store and Apartment House, Annapolis, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Philip Mills, Annapolis, Md. Brick and steel, 3 stories, 46x120 feet, slag roof, hot water heating, electric lighting, tile and marble work. Archi-



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One of the largest reinforced concrete structures in Philadelphia. A typical example of **TURNER CONCRETE CONSTRUCTION**.

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SPEED AND SATISFACTION

1713 Sansom Street, Philadelphia, Pa.

tect taking bids, due September 7th. The following are figuring: Cowan Building Co., 106 West Madison street; M. C. Davis, 15 East Fayette street; B. F. Bennett Building, 123 North Howard street, all of Baltimore.

Hospital (alts.), Linden avenue, near Madison street, Baltimore. Architect, Charles M. Anderson, 324 North Charles street, Baltimore. Owner, Maryland General Hospital, on premises. Brick, iron, steel and tile, 32x59 feet, tin roof, steam heating, electric lighting. Architect taking bids. Cowan Building Co., 106 West Madison street, Baltimore, Md., are figuring.

Maryland

Contracts Awarded

Apartment House (alt. from Res.), 1201 North Charles street, Baltimore, Md. Archi-

tect, Riggin Buckler, 11 East Pleasant street, Baltimore, Md. Owner, M. Winslow Williams, 1201 North Charles street, Baltimore, Md. Brick, 4 stories, slag roof, hot water heating, electric lighting, tile floors. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore, Md.

Dormitories, Towson, Md., \$138,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, State Normal School. Brick and stone, concrete, iron and steel, 3 stories, slate roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Contract awarded to Edw. Brady & Son, Cathedral and Howard streets, Baltimore.

Bridge, on Old Liberty road, over North Branch. Owner, State Road Commission, Garrett Building, Baltimore, E. O. Weller, chairman. Reinforced concrete and steel. W. H. Thompson, Calvert and Read streets, Baltimore, and Poole & Hunter, Westminster, Ind., are the lowest bidders.

Bridge, Ellicott City, Md. Owner, State Roads Commission, Garrett Building, O. E. Weller, chairman. Reinforced concrete and steel. Mason-Hilton Co., 17 Battery Place, New York City, and Lenten Bridge Co., York, Pa., submitted the lowest bids.

Dwellings (14), 2800 Block, Winchester street, Baltimore, \$25,200. Architect, B. Turnbull, 12 East Lexington street, Baltimore. Owner, P. S. Morgan, 12 East Lexington street, Baltimore. Brick, 2 stories, 15x100 feet, slag roof, hot air heating, electric lighting. Owner is taking sub-bids on all lines.

Residence, First street and First avenue, Baltimore, Md., \$7,000. Architect, Charles Huber, St. Paul and Saratoga streets, Baltimore. Owners, George Long Contracting Co., Baltimore, Md. Frame, 2½ stories, 32x46 feet, slate roof, steam heating, electric lighting. Owners taking sub-bids on all lines.

Miscellaneous Construction News

Church, Wilmington, Del., \$80,000. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Hanover Presbyterian Church, Wilmington, Del. Stone, 1 story, 90x150 feet, slate roof, electric lighting, steam heating, tile work, metal lath, dampproofing and waterproofing (heating separate). Architect taking bids due September 7th. The following are figuring: A. S. Reed, W. D. Haddock, W. H. Jones & Sons, Charles Forwood, all of Wilmington, Del.

Moving Picture Theatre, 810-812 French st., Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. G. Gilbert, Wilmington, Del., 1000 French street. Brick or stone, 2 stories, 37x125 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath. Ready for bids in a few days.

Hotel (add. and alt. front), 308 King street, Wilmington, Del., \$3,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wesley Taylor, 308 King street, Wilmington, Del. Press brick and stone, 3 stories, 30x70 feet, tile roof, combination lighting, tile floors, metal lath. Architect will take bids in one week.

Residence, Twenty-first and Harrison sts., Wilmington, Del. Architect, John D. Thompson, Ford Building, Wilmington, Del. Owner, J. B. McHugh, Eighth and Church streets, Wilmington, Del. Stone or brick, 2½ stories, 37x40 feet, tile or shingle roof, vapor heating, combination lighting, hardwood and tile floors. Revised plans in progress.

Barn, Basin Farms, State Road, Del., \$5,000. Architect, R. C. Tindall, Equitable Building, Wilmington, Del. Owner, Newcastle Commons, Basin Farms, State road, Del. Frame

and stone, 2½ stories, 50x55 feet, shingle roof, concrete floors, metal cow stalls, iron gratings. Architect taking bids. Harry Luff, Montchanin, Del., figuring.

Store, Greenwood, Del. Architect, L. W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, R. E. Willey, Greenwood, Del. Brick, 2 stories, 48x60 feet, composition roof, steam heating, metal lath, metal ceiling, metal window front, plate glass, waterproofing and dampproofing. Architect taking bids. Plans ready September 1st.

Theatre, Montreal, Canada. Architect, E. A. Westover, Keith Building, Philadelphia. Owner, B. F. Keith, New York City. Brick, steel and terra cotta, 1 story, 120x198 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Plans in progress.

Miscellaneous Contracts Awarded

Storage Warehouse and Garage, Darby, Pa. Architect, H. M. Pedrichs, Darby, Pa. Owner, T. H. Sipler, Darby, Pa. Brick, 1 story, 50x86 feet, slag roof (heating and lighting reserved). Contract awarded to Julius Nelson, Darby, Pa.

Hall (add.), Ridley Park, Pa. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, Ridley Park Borough, care of W. K. Mitchell, Ridley Park. Brick, 2 stories, 17x27 feet, slate roof, steam heating, electric lighting. Contract awarded to J. W. Beckert, Ridley Park, Pa.

Factory (alt.), Wayne avenue and Windrim street, Philadelphia, \$4,000. Architect, private plans. Owner, Brown Instrument Co., Ninth street and Montgomery avenue, Philadelphia. Brick, consists of interior alteration and addition. Contract awarded to R. C. Ballinger Co., 218 North Thirteenth street, Philadelphia.

Apartment House, Detroit, Mich. Architect, Albert Kahn, Detroit, Mich. Owner, Walker Apartments, Detroit, Mich. Brick, steel and concrete, 9 stories, 100x186 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, metal frames and sash, elevators. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Publishing House (alt. and add.), Third and Shipley streets, Wilmington, Del., \$5,000. Owner, Star Publishing Co., 317 Shipley st., Wilmington, Del. Brick and terra cotta, 3 stories, 32x90 feet, slag roof, electric lighting, metal lath. Contract awarded to Charles Dougherty, 1809 Lincoln avenue, Wilmington, Del.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

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Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

Permits for New Buildings

W. P. Barba (O), 5147 Morris street. W. C. Wright (C), 22 Harvey street. Cost, \$1,500. Garage, 5147 Morris street.

J. F. Betz & Sons (O), Fifth and Callowhill streets. J. W. Cornew (C), Laurel Springs, N. J. Cost, \$1,680. Saloon and dwelling, Thirteenth and Bainbridge streets.

Joseph Hass (O), 4317 Germantown avenue. H. H. Yerger (C), 4430 North Nineteenth st. Cost, \$1,000. Garage, Sixteenth and St. Luke streets.

Bishop Nicholson Memorial (O), Tenth and Rockland streets. H. P. Werner (C), 3245 Germantown avenue. Cost, \$2,685. Sunday School, Tenth and Rockland streets.

Lorraine Hotel (O), Broad street and Fairmount avenue. G. F. Payne Co. (C), 401 South Juniper street. Cost, \$1,000. Hotel, Broad street and Fairmount avenue.

M. P. Myers (O), Township Line and Roxborough avenue. E. L. Cuthbertson (C), Roxborough, Pa. Cost, \$4,000. Residence, Township Line and Roxborough avenue.

Baker Merchandise Co. (O), 1732 Germantown avenue. H. H. Cluck (C), 170 East Walnut Lane. Cost, \$1,000. Store, 1732 Germantown avenue.

Brown Instrument Co. (O), Ninth street and Montgomery ave. R. C. Callinger & Co. (C), 218 North Thirteenth street. Cost, \$4,000. Manufacturing Building, Wayne avenue and Windrim street.

Archbishop E. F. Prendergast (O), Eighteenth and Race streets. D. W. O'Dea (C), 5219 North Fifth street. Cost, \$8,000. Church, Lehigh avenue and B street. Cost, \$5,000. Church.

E. Barrows (O), 2807 Spruce street. Joseph Javisk (C), 2654 East Indiana avenue. Cost, \$2,300. Dwelling, 4002 Chestnut street.

The Berg Co. (O), Ontario and Bath streets. Robert Beatty Bros. (C), 2321 East Fletcher street. Cost, \$24,000. Factory, Ontario and Bath streets.

P. Wenokin (O), Nineteenth and Federal streets. Cost, \$1,334. Store and dwelling, 1254 South Tenth street.

J. S. Wilson (O), 44 North Seventh street. J. P. Wood Co. (C), 239 North Fourth street. Cost, \$2,000. Office, 1507 Arch street.

Wert & Knox Manufacturing Co. (O), Twenty-third and York streets. Cost, \$4,000. Manufacturing, Twenty-third and York streets.

Atlantic Refining Co. (O), 3144 Passyunk avenue. Cost, \$1,800. Garage, Rittenhouse and Pulaski avenues.

C. Katman (O), 325 South Fifth street. Frank & Kaiser (C), 1522 South Fifth street. Cost, \$1,150. Apartments, 325 South Fifth st.

John Oranto (O), 616 Sears street. Cost, \$1,600. Dwelling.

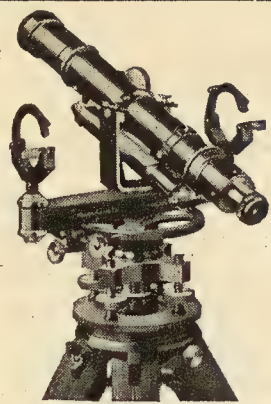
Twenty-second Street M. E. Church (O), Twenty-second and Moore streets. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$9,000. Church.

A. M. Zane (O), Land Title Building. Cost, \$67,500. Twenty-seven dwellings, brick, 2 stories, 15x29 feet, Thirteenth street and Wyoming avenue.

W. B. Herdenger (O), Broad and Arch sts. Steward & Stevens (C), 1716 North Ninth st. Cost, \$1,000. Hall, Levering & Cresson sts.

"The knowledge of to-day may be the ignorance of to-morrow. Then where are you unless you keep posted from day to day?"

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—Ex.



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Alterations and Additions

Dr. George Strawbridge (O), Wissahickon avenue and Hertter street. F. B. Davis (C), 240 North Sixteenth street. Cost, \$3,500. Residence and stores, 202 South Fifteenth street.

Gratz College (O), Broad and York streets. Charles McCaul Co. (C), 1713 Sansom street. Cost, \$28,000. School, Broad and York streets.

J. & A. Tunick (O), 720 South Eleventh street. U. G. I. Co. (C), Broad and Arch streets. Cost, \$3,000. Factory, 720 South Eleventh street.

Hellwig Silk Co (O), Ninth and Buttonwood streets. Ketcham-McQuade Co. (C), 1029 Brown street. Cost, \$2,800. Mill, Holmestead and Milnor streets.

H. F. Richter (O), 128 Ripka avenue. Cost, \$1,000. Garage, Lenning and Hermitage streets.

PERMITS FOR NEW BUILDINGS.

Louis Litenberger (O), 7345 Oxford street. Cost, \$9,000. Six dwellings, brick, 2 stories, 14x45 feet, Bleigh and Lawndale streets.

M. Faniras (O), 2428 South Eighth street. S. Lashner (C), 1700 South Fifth street. Cost, \$5,500. Two dwellings, brick, 3 stories, 14x43 feet, 2012 South Seventh street. Cost, \$2,500. One dwelling.

George F. Bauer (O), 1415 North Thirty-first street. P. Haibach Const. Co. (C), Twenty-sixth and Thompson streets. Cost, \$5,200. Warehouse, brick, 2 stories, 100x50 feet, 1415 North Thirty-first street.

David Berg Distilling Co. (O), Swanson and Tasker streets. Joseph Levin Co. (C), 1530 South Sixth street. Cost, \$2,000. Shed, Swanson and Tasker streets.

J. A. Seeds (O), 607 West Upsal street. Moore & Graham (C), 622 West Johnson street. Cost, \$8,000. Residence, stone, 2½ stories, 36x43 feet, Cliveden and Lincoln drive.

C. S. Land (O), Twenty-seventh and Cambria streets. Cost, \$4,000. Two dwellings, brick, 2 stories, 15x44 feet, Marston and Cambria streets. Cost, \$30,000. Fifteen dwellings. Cost, \$36,000. Eighteen dwellings. Cost, \$2,500. One dwelling. Cost, \$2,500. One dwelling. Cost, \$4,000. Two dwellings. Cost, \$3,000. Store and dwelling.

G. W. Robinson (O), 515 East Conarroe street. Cost, \$7,000. Three dwellings, brick, 3 stories, 16x46 feet, Seville and Mitchell streets.

Board of Education (O), City Hall. H. E. Baton (C), Twelfth and Sansom streets. Cost, \$1,000. School.

Keystone Lantern Co. (O), 227 Gaskill street. J. R. Jackson (C), Perry Building. Cost, \$33,500. Manufacturing building, brick, 4 stories, 37x113 feet, Cottman and Milnor streets.

John Lorenzo (O), 305 East Haines street. G. C. Fossel (C), 128 East Cheltenham avenue. Cost, \$1,250. Residence, brick, 2 stories, 16x31 feet, 361 East Rittenhouse street.

THE MODERN ARCHITECT.

The "Engineering Record," in a recent issue, discussing the complex duties of the practice of architecture to-day, states editorially:

"Before passing hasty judgment upon the architect of our own times, think a moment of the evil days upon which he has fallen. In the mediaeval times he must perforce know only the technique of masonry—the rest was his art. If he were building a church the fine stimulus of the Gothic was his inspiration and his medium was craftsmanship in stone. To-day he must know masonry and concrete, structural steel and sanitary plumbing, lighting and heating, electric wiring and acoustics.

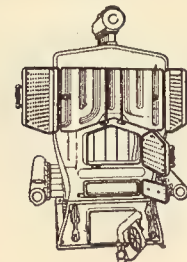
"His predecessor did not have to plan for buying his stone from one source; his steel from another and his woodwork from a third; he was not hounded by agents of patented devices nor pestered by circulars of supplies offering him 'the usual architect's commission of — per cent.' All these things the architect of to-day has to endure, besides being called a slavish copyist if he turns to the best in antiquity and a commonplace innovator if he does not.

"His chief hope is in suiting himself as best he may to new conditions, calling in technical advisers on the details which he cannot in the nature of things have time to master, even if he has the ability, standing the more firmly by the interests of his client as he comforts a regiment of sub-contractors, and remembering that he must be artist before being engineer or contractor. Originality and resourcefulness are much more difficult to find than technical or constructional skill, and if the architect is to be more than a master mason or boss concrete mixer it must be by the possession of these attributes. Art did not die with the Gothic nor perish with the Romanesque. The times have changed and the architect must change with them."

STEEL FRAME HANGARS.

Structural steel frames of very considerable size and complication of design are being used in Europe as hangars for large dirigible balloons. In general, these sheds consist of a series of simple arch frames, similar in design to the usual armory roof in this country, but of much lighter material because of the very light roofing. They are usually rectangular in plan, providing room for one airship with exit or entrance at either end, but some of the newer sheds are wide

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enough for two airships, side by side, and proposals have been made to build them in triangular or in starshape plan, so as to provide entrance in the direction best favored by the prevailing wind. To accomplish this latter end, at least one shed has been built, 443x85 feet in plan, mounted on a turntable so that it may be turned to meet any wind condition.

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Irving Dillon.....Editor

PHILADELPHIA, PA., SEPTEMBER 2, 1914.

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Editorial Comment

Our esteemed New York contemporary, "Sheet Metal," appears to have been somewhat peeved by recent utterances of "The Guide" with reference to the New York State Labor Commission's effort to legislate metal roofing into compulsory use. "It is safe to say," observes "Sheet Metal," "that exception will be taken by tin plate manufacturers and dealers as well as by tin roofing contractors, to the general tone of the comment as well as to the conclusions arrived at.

"Our understanding," "Sheet Metal" goes on to say, "is that the law was enacted after the terrible factory fire at Binghamton, and as far as can be learned, the sheet metal interests took no part in preparing the law, which was as much of a surprise to them as to the composition roofers. * * * The law was not 'sneaked' through the Legislature. Surely anyone familiar with the organization of the sheet metal manufacturers and contractors knows that they are not strong enough to sneak through very much legislation, even if they were composed of men who would stoop so low, which, we are proud to say, they are not. The contractors are organized into local associations in but six cities of the State, and there is no State association. The Association of Sheet and Tin Plate Manufacturers is not in such shape as yet to devote much energy to legislative action, and certainly would not sneak jokers or worm dodgers. * * * The Labor Department in New York State has reason to safeguard human life after such a fire as the terrible Binghamton catastrophe. There has been a strong demand for all precautions. We do not doubt but that if too sweeping provisions were provided it was with the view of protecting lives in factories and in answer to the demands of the public press and various labor and altruistic organizations."

* * *

Quoting "The Guide's" assertion that "the National Association of Master Slag and Gravel Roofers after convincing the State Labor Commission of the injustice of the law and absolutely proving to them that a slag or gravel roof is one of the best fire-retardant coverings that can be had, had elicited a promise that the use of slag or gravel roofing would be permitted where the roof deck is of board sheathing, "Sheet Metal" comments:

"It would be interesting to see the proof submitted. The promise to permit the use of a composition roof on board may be all right, but the cold fact remains that the Department of Labor does not now permit its use on any new factory in any city in New York State as far as can be learned."

"The final paragraph of the editorial," concludes "Sheet Metal," "with its severe criticism of the present-day tin roofing plate,

would suggest that the editor of the 'Builders' Guide' might learn some matters that would be of value to him and to his readers if he is willing to make the effort to inquire regarding this important subject from H. N. Taylor, Chestnut and Third streets; Powell Evans, 517 Arch street, or E. L. Seabrook, 261 South Fourth street, all of his city."

* * *

Very good. But, as every lawyer knows, in a legal action disinterested testimony is not sought nor is it expected from interested parties. "Sheet Metal" is the organ of the metal roofing interest of the country. Its mission in life is to boost metal roofing in general and the metal roofing of its advertisers in particular. If the tin plate interests did have a part in "sneaking" into legislative enactment the provision requiring fire-proof arches under composition roofing, "Sheet Metal" would be about the last publication we should expect to hear voicing a public admission of that fact. Whether the promise to permit the use of composition roofing on board sheathing has been kept or not, "The Guide" is not in a position to say. But "The Guide" is in a position to say, and does not hesitate to say, that it should be kept, not as a concession to the composition roofing interests, but as a matter of right and justice. The reference to the Binghamton fire as a plea in justification of the little joker favoring metal roofing is, to our way of thinking, rather far-fetched.

* * *

Disastrous fires in buildings under roof coverings of tin plate are too common within the recollection of the average reader to render this reference of any convincing value, whether as argument or extenuation. As to the somewhat gratuitous suggestion that "The Guide's" editor call upon Mr. H. N. Taylor, Mr. Powell Evans or Mr. E. L. Seabrook for data as to the merits of tin plate, this, we fear, is a somewhat artless example of what is known as unconscious humor.

Two of the gentlemen named, as manufacturers of tin plate, and the third as the active official of a national organization whose activities are dedicated to the advancement of metal roofing, could hardly be accepted as disinterested witnesses in any issue affecting the value of the product from which each derives his income.

Not that we have the faintest hard feeling in the matter toward any of the parties concerned. Mr. H. N. Taylor is a charming gentleman, personally and otherwise. Mr. Powell Evans is a credit to the industry in which he is engaged and to the community in which he carries on his activities, commercial and quotidian. Mr. Seabrook is a most capable gentleman in his own particular field of endeavor. "Sheet Metal" is one of the most valued of our contemporaries.

Provisions placing one line of manufacture at a disadvantage, to the marked and decided gain of another line, are not as a rule the result of accident, chance or public clamor. The requirement of fireproof arches under composition roofing makes this class of roof covering more expensive to apply than tin. It may be, as "Sheet Metal" claims, that the sheet metal interests had no hand in bringing about this ruling. Personally we would much prefer to believe that this is the case, and that, to quote "Sheet Metal," the national organization is composed of men who would decline "to stoop so low." But—How would it look to a wholly disinterested third party, presenting the bald facts just as they stand?

* * *

"House Beautiful" printed in a recent number a list of little conveniences compiled by a lady contributor covering ideas not commonly embodied in the average house. A few of these, we should class as not practicable. The bulk of them are, however, so good as to be worth noting. They are supposed to be the suggestions of a number of practical housewives, each one represented by a letter of the alphabet. The article is headed, "My New House," and presents the following:

"Mrs. A. Every closet in the house is to have a small window and an electric light.

Mrs. B. A trash chute from all the floors down to the cellar will be built into our house.

Mrs. C. I want a back opening to my refrigerator so that it can be filled from the back porch.

Mrs. D. Built in under the shelves in my linen closet there will be a cedar chest for storing clothes.

Mrs. E. The switch for the electric light in our cellar will be set at the head of the cellar stairs.

Mrs. F. One end of our cellar will be shut off as a cold room for meat and vegetables in winter.

Mrs. G. We expect to build a clothes chute opening from the bath room and leading into the cellar laundry bin.

Mrs. H. Our plans call for several upstairs sleeping porches, roofed, screened and curtained, with high railings.

Mrs. I. My kitchen sink is going in a place where there can be two draining boards instead of the inconvenient one.

Mrs. J. As a practical help in an inelegant problem—Bury the garbage can underground, with a top lifted by foot pressure.

Mrs. K. I shall have window slides put in the walls between pantry and kitchen and pantry and dining room, to save carrying.

Mrs. L. There will be a small closet in our bathroom for soap, towels and such things, its upper part made into a locked medicine cabinet.

Mrs. M. In my kitchen you will see a thousand hooks—more or less, so that everything may be hung up out of the way and yet be within easy reach.

Mrs. N. I hope to dispense with a coal

range in my kitchen, using gas or electricity for fuel, and heating the kitchen by a pipe from the basement heater.

Mrs. O. When our new range is put in, there is to be a dump under the firebox, so that accumulated ashes may be dropped directly into a can in the cellar.

Mrs. P. The lower sash of our bath room window will be of ground glass and will reach several inches higher than usual, thus doing away with the sash curtains.

Mrs. Q. Practically all my kitchen windows will be set high in the wall—a generous row of them—leaving room for furniture of all shapes and giving plenty of light.

Mrs. R. We are putting a small lavatory and children's coat closet in the back hall—they are to enter from school or play by the back hall door and "clean up" before appearing.

Mrs. S. In my linen room I shall have some cubby-holes like long, shallow drawers, their fronts dropping outward, from catch fastenings, so that I can see their contents quickly.

Mrs. T. I am going to have my kitchen table and sink built at least thirty-five inches high, instead of the usual height—which for most women necessitates constant bending over the work.

Mrs. U. We are planning sleeping porches, too, and we are warned that we must build the doors wide enough to allow a cot to be pulled through easily, and to have double doors, opening inward.

Mrs. V. The swinging doors between kitchen, pantry and dining room in our new house are to swing open down the middle—instead of at the side—so that the maid may go through in either direction.

Mrs. W. I dream of a broad, shady porch set at some back corner of the house, vine-covered, and not too far from the kitchen, where we may have meals occasionally in hot weather.

Mrs. X. The ironing board in our laundry will be hinged to the wall, where it may be hooked up out of the way when not needed, and quickly let down on its swinging stand when put into use.

Mrs. Y. My kitchen table will have no waste space to shame me. Every cubic inch, save what is needed for foot room, will be utilized for drawers, bins and cupboards—and the top will be of zinc.

Mrs. Z. The flour barrel in my kitchen will be set on the inside of the door to the lower part of the cupboard, on a frame of wooden strips, screwed securely, so that it swings into usefulness and out of sight.

Mrs. Etc. My new house will be equipped with a Handy Husband, a Tool Chest, and a Perfect Willingness to spend odd moments putting in the conveniences that the builders—and I—forgot."

* * *

The National Committee of the Confederated Supply Associations has recently issued an interesting circular, urging upon municipalities the establishment of public comfort stations.

The circular shows the need of such public conveniences, which should be opened day and night throughout the year to all classes.

It points out that public comfort stations are not of recent origin in European countries, as England, Germany, France and Belgium and other countries have long since recognized the need of such establishments for the convenience of the people and are to be found scattered throughout leading cities.

It is interesting to note that New York appears to be the leader among the cities of this country, and also claims to have established the first institution of the kind in Astor Place, May, 1889.

Attention is called to the fact that most cities, many of them considered beautiful, are well supplied with hotels, restaurants and saloons which men, women, girls and boys are too often forced to make use of, because of the absence of necessary public comfort stations.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

Ever try a "Want" ad. in The Guide? Gets the goods every time.

FASTER SYSTEM

MAXIMUM EFFICIENCY AT MINIMUM COST

ROOFING AND WATER PROOFING

SEND FOR BOOKLET

BENJAMIN FOSTER COMPANY

22nd & SEDGLEY AVE.

PHILADELPHIA PENNSYLVANIA.

ELECTRICITY

should be provided for in every building you erect, for now-a-days it is hard to rent or sell a house, store or building unless it is wired for electric service.

We will be very glad to have you take advantage of our facilities for planning the lighting equipment of new buildings with due regard to the highest efficiency and greatest economy.



The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

Don't knock. Boost! Don't grouch. Smile! Don't mope. Advertise!

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

Your salesman would consider himself fortunate to get **ONE TEN-MINUTE INTERVIEW** with a busy architect **IN THREE MONTHS**. We **REACH** and **TALK DIRECT** to men of this calibre **FIFTY-TWO WEEKS IN THE YEAR!**

"Noah filled the ark," says an exchange, "without advertising."

Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us, for 40 days and 40 nights.

The man who is "going to do some advertising next year—maybe" gets his advertising in the end in the shape of an obituary.

The "Builders' Guide" is the **OLDEST**, and the **ONLY** Architectural Publication in Pennsylvania.

Are you a regular subscriber to "The Guide"?

STATUS OF PUBLIC BUILDING CONSTRUCTION

The following letter from the office of the Supervising Architect at Washington, dated July 1st, 1914, is self-explanatory. A careful reading of it may save some of our subscribers a whole lot of unnecessary correspondence, not to mention railroad fares between here and Washington. Read it. Read it carefully. Then file it away for future reference.

Many requests are received for the immediate preparation of plans, etc., for particular Federal buildings which have been authorized by existing legislation, irrespective of the date of such authorization. The following statement of the present status of public building work is issued for the information of all concerned.

Beginning with 1902 it has been the policy of Congress to authorize public buildings by what are known as "Omnibus" acts, each act including a great many separate projects. In addition, special acts are passed from time to time, providing for individual projects, increases in the limits of cost of projects previously authorized, etc. The "Omnibus" Act of 1902 was followed by similar acts in 1903, 1906, 1908, 1910, and 1913.

It is the present policy to place under contract for construction all buildings, or extensions to buildings, authorized in any one "Omnibus" act before beginning plans for projects authorized by a subsequent act. It is also the present practice to prepare the plans for all buildings, or projects, authorized in any given act in the order of the dates upon which the titles to the sites therefor were vested in the United States.

To determine the precise order in which the plans for the various buildings shall receive attention, the following procedure is followed: The buildings authorized in any one act are first divided into groups according to the priority of the acts in which their sites were authorized. All buildings in each such act-group are further arranged in the order of the dates of the acquisition of their sites, the earliest date first. For instance, the 1913 act authorizes buildings upon sites which had been authorized in the act of 1908; in the act of 1910, and in the act of 1913. It is intended that the buildings so authorized in 1913 to be erected upon sites authorized in 1908 shall first be placed under contract. These will be followed by buildings authorized in 1913 to be constructed upon sites authorized in 1910. Then the buildings authorized in 1913 to be built upon sites also authorized in 1913 will take their respective turns for attention.

Extensions are usually authorized to be erected upon land already owned by the United States. While extension projects are included with the buildings authorized in a particular act, discretion is exercised in de-

termining the order in which extensions shall be placed under contract for construction, depending upon the urgency of the need for the improvement.

The output of plans by the Supervising Architect's office is governed by the extent of the technical force (designers, draftsmen, computers, superintendents, etc.) which the appropriations given by Congress permit the department to employ.

At this date the office of the Supervising Architect has on its books, waiting to be placed under contract, approximately \$38,500,000 worth of authorizations for new buildings and extensions, exclusive of the value of the land. This includes the new buildings and extensions in the act of 1913. This office is placing buildings and extensions under contract at the rate of about seven million dollars annually, so that at the present rate of progress the last of the buildings authorized in the act of 1913 will not have been placed under contract until about the beginning of the calendar year 1920. It will not be until after the latter date that it will be possible for the Supervising Architect to place under contract any buildings contained in any act, or acts, which may be passed in the meantime.

The current program, made up of the remaining projects which were authorized prior to the 1913 act, includes about one year's work from this date. Work upon the plans for buildings authorized in the act of 1913 will therefore not commence until about July 1, 1915. The 1913 act contains the following authorizations:

New buildings 304
Extensions to existing buildings..... 23

Total projects 327

The program of work contained in the act of 1913 has not been laid out as yet. Therefore it is impossible to state even approximately the time when any building authorized in that act will be either advertised for bids or placed under contract.

If a subsequent act increases the limit of cost, or otherwise modifies prior legislation for a building or extension, before that project is reached in turn, the position of the project in the program of work is not affected thereby. If a project is set aside when its turn is reached in order to await action upon a proposed increase in the limit of cost, or for any other reason, it is taken up, whenever "released," in as near its original position as the condition of the work, generally, may render possible.

No consideration can be given to suggestions that any one project is entitled to any more consideration than another, and requests that buildings be advanced out of their order must be uniformly declined.

For the information of those not familiar with legislative terminology, it may be stated that an "authorization" is, as it implies, merely authority to acquire a site, erect a building, etc., within the limit of cost stated, and is not an actual "appropriation" of money out of the Treasury. Appropriations are made by Congress on the basis of estimates submitted by the Secretary of the Treasury. These appropriations are carried in one or the other of the annual supply acts and are intended to be only sufficient to carry forward the building program for the fiscal year to which the acts apply. "Appropriations" are made on account of the limits of cost fixed by the "authorizations" and are not extensions of these limits. All appro-

priations for sites, buildings, extensions, etc., are available until expended, unless repealed by act of Congress, and are not automatically returned to the Treasury if not expended before the expiration of the fiscal year.

The Public Buildings Act of 1913 authorized the Treasury Department to acquire sites, erect buildings, construct extensions, etc., aggregating a total cost of nearly \$42,000,000, but did not actually appropriate one cent toward the consummation of any of these projects.

O. WENDEROTH,
Supervising Architect.

Approved:
BYRON R. NEWTON,
Assistant Secretary of the Treasury.

THE EVOLUTION OF THE PORCH

The Porch Has Become Such An Indispensable Feature of the Suburban or Country House That a Brief Consideration of Its Origin, Development and Probable Future May Prove Interesting

During the Colonial period, sitting-out porches were exceedingly rare, though the well-composed lateral porches of the Royall house, Medford (1737) and of the Longfellow house, Cambridge (1759) prove that the Colonial designers could deal with this problem successfully. These pioneers found few imitators, however, until recent years, even the more pretentious dwellings having nothing but small hoods or low-columned porches at the front entrance.

During the opening years of the Nineteenth Century the country was swept by the Greek revival and the skillful planning, "small scale" and dainty detailing of the Colonial period gave place to clumsy planning, "large scale" and bolder detail; everyone who could afford to do so, adopting the gigantic portico, and the less fortunate compressing their edifices into as close an imitation of the Greek temple form as their ingenuity permitted.

In the north, at least, the portico seems to have been adopted rather for the sake of the somewhat pompous dignity that it lent to the house, than in order to provide a place for family life in the open air. In the south, on the contrary, where climatic conditions were more favorable, these porticos seem to have been generally used as sitting-out porches—some examples date even from the true Colonial period.

The columned portico, once adopted, may, however, have had some influence upon subsequent work, for long, narrow porches were fairly common in the Victorian Gothic and mansard-roofed styles that superseded, toward the middle of the last century, the classicism of the Greek revival. These narrow porches were found in their most highly-developed form in the large mansions of the period erected just outside the large cities and which corresponded socially to the great

"country houses" of to-day. In less pretentious dwellings the porch was still a rarity.

My own opinion is that the present wide popularity of the sitting-out porch is the result of the rise of two very conspicuous features of modern American life, the suburb and the summer vacation, both of which seem to have become more prominent during the ten years following the Civil War. This period was marked by the erection of many summer hotels and cottages, usually of the most flimsy character, which in most cases were nearly surrounded by narrow, roofed porches. The good points of these seem to have made an immediate appeal to the vacationists who seized upon this arrangement, regardless of its disadvantages for all-the-year purposes, and used it in the suburban settlements that were beginning to spring up around the large cities. The Centennial Exposition of 1876 served to popularize tendencies already existing in the United States and the English building and exhibits to introduce the Queen Anne and Eastlake styles in which much of this work was subsequently carried out.

Somewhere about 1890 the more progressive architects and their clients seem to have recognized the fact that such a porch is not an unmixed blessing, as it excludes the sun during the winter and offers but an indifferent opportunity for entertaining in summer. These objections were overcome by the narrow stringy "piazzas" into a sort of outdoor room, removed, for the sake of privacy, from the main entrance, to protect and decorate which, precedents were sought in the hoods or low porches of a hundred years earlier. This general arrangement is still the basis of the best current practice, later developments having affected only the materials and minor features. The present tendency is toward the

use of continuous masonry foundations, and either tiled, brick or cement floors in place of the frame construction and wood floors of ten years ago. In many cases a fireplace and a system of glazed enclosures have been added, porches so fitted being called "sun-parlors."

It seems that the problem of porch design has been recently so satisfactorily solved by our best designers that one is tempted to say that where sufficient funds are available, the last word in porch design has been said. What, then, of the cases in which his clients' demands for expensive plumbing, heating and electrical equipment, interior finish and flooring, drive the architect to his wits' end in order to bring the cost within the appropriation. Every feature must then be scanned for possible economies. Why, then, should the porch be exempt?

A little consideration should convince the average person that the up-to-date porch is really another living room, differing from the first only in its larger wall openings and in its wall treatment which generally follows that of the exterior of the house. Why should we not, therefore, make these changes in the living-room itself and omit the porch? The omission of the cellar beneath it would render easier the laying of masonry floors, wide openings closed by French windows could lead to the garden by easy flights of steps, but additional storm sash would be required for these during the cold months. The wall treatment would involve more difficulty. I have seen a very attractive living-room in a hollow-tile house in which the tile, which showed about eight inches by twelve on the face and were not scored, were left exposed. The adaptation of the many brick and tile novelties that are now available should be a most interesting problem.

What if they should prove the fate of the porch, after having transformed our living room, utterly to disappear from the house of moderate cost? Stranger things have happened—F. N. Reed in "House Beautiful."

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

The One That Gets the Trade.

The constant dropping water wears away the hardest stone,
The constant chewing bulldog masticates the toughest bone,
The constant cooing lover takes away the blushing maid,
And the constant advertiser is the one that takes the trade.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

DO YOU LABEL YOUR WORK?

There is nothing more dignified or elegant than our large Weatherproof Fiber Card-board Signs. More serviceable than iron, wood or cloth. Packed in a box—printed—ready for displaying.

2 x 3-Ft. SIGNS 12 CENTS EACH

\$12.00 per 100. Check with the order. Other sizes 1½ x 2 ft. to 3 x 4 ft. proportionate prices. Send for an illustrated folder.

Independent Printing Companies of U. S.
McLachlen Bank Building, Washington, D. C.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The regular monthly meetings of the American Society of Engineers, Architects and Constructors, held on the second Tuesday of each month, will be resumed in October. In September a special meeting will be held jointly with the Engineers' Club, of Philadelphia, at 1317 Spruce street, Philadelphia, on Saturday evening, September 19, at 8 o'clock. Mr. Boorman will read a paper on "Modern Roadbuilding, Here and Abroad."

**Mr. William C. Clifford was elected general manager and Mr. George James, treasurer, of the Woodbury Granite Company at a recent meeting of their Board of Directors, both these positions having been made vacant by the death of Mr. George H. Bickford.

**The abandonment of macadam as a road pavement is recommended by William Elbring, highway engineer of St. Louis County, Mo., according to newspaper versions of his recent annual report. Mr. Elbring states that rapidly increasing traffic has made various forms of macadam road construction inadequate and urges the construction of permanent pavements of brick or concrete costing from \$15,000 to \$20,000 per mile. The report shows that \$372,161 was expended on maintenance during the past year, an increase of nearly \$12,000 over the previous year.

**The Society of German Engineers has recently completed a new club house in Berlin at a cost of upwards of \$500,000. The society has a membership of more than 25,000 and claims to be the largest organization of its character in the world. This society has branch organizations in England, China, Argentine Republic and other countries.

**Charles O. Tappen, consulting and construction engineer, has opened offices at 2 Rector street, New York City. He will specialize in hydro-electric power, transmission, public utilities engineering, valuation and appraisal work. Mr. Tappen was formerly chief engineer of the Northern Power Company and the Hannawa Falls Water Power Company, Potsdam, N. Y.

**J. K. Giesey, formerly associated with Hering & Gregory, consulting engineers, New

York City, resigned to assume charge of sewer work in York, Pa.

**National Paving Brick Manufacturers' Association will hold its annual convention in Buffalo, N. Y., September 9 to 11. Headquarters at Hotel Statler.

**The American Road Builders' Association is making plans to hold a joint meeting with the American Highway Association at some time during the Panama-Pacific Exposition. The meeting will be held either in San Francisco or Oakland. Committees have been formed who are working out the details.

**Second International Exposition of Safety and Sanitation will be held at the Grand Central Palace, New York City, December 12 to 19, 1914. This exposition is held under the auspices of the American Museum of Safety, and according to present plans will surpass the very successful exhibition held at the same place last year.

**George D. Howell, formerly vice-president of the McCrum-Howell Company, New York, in a decision handed down by the United States Circuit Court, has been held liable for \$2,229,935 in notes which he endorsed for this firm, whose failure occurred in 1912. This decision reverses a decision of the United States Circuit Court.

**Pierce, Butler & Pierce Manufacturing Company, Syracuse, N. Y., announces the appointment of George W. Crane as manager of the firm's New York office, succeeding E. C. Molby. Mr. Crane was formerly located at the company's home office in Syracuse.

**Kelsey Heating Company, Syracuse, N. Y., announces that it has opened an office and salesroom in Chicago at 2767 Lincoln avenue, with J. P. Moran in charge.

**E. C. Molby, formerly Eastern manager for Pierce, Butler & Pierce Manufacturing Company, who has recently taken up the sale of the Surrell down-draft boilers, has issued an announcement to the trade in which he states that "having carefully investigated the principles of combustion, and their application as represented in the construction of this boiler, I am convinced that the future

boiler business of the country depends upon the adoption of a boiler embodying these principles, and that the Surrell construction is perfect in principle, perfect in application, and entirely satisfactory as to operation and economy in actual practice." Mr. Molby's headquarters are at 39-41 Cortlandt street, New York. Further announcement is made that hereafter the Surrell boiler will be known as the Molby heater and that the business will be conducted under the name of E. C. Molby.

Are you aware, Mr. Advertiser, that this paper circulates in 5,000 offices, reaches every architect of any prominence in the East and the Secretary of every architectural club and chapter in the country?

THE BUILDERS' GUIDE,
Perry Building, Philadelphia.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

DO IT NOW.

All we have is just this minute
Do It Now.

Find your duty and begin it
Do It Now.

Surely you're not always going
To be "a going to be," and knowing
You must sometime make a showing.
Do It Now.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

When the game is advertising, specializing pays. You couldn't advertise hats in a brick magazine any more than you would advertise corsets in a tobacco trade journal. Selecting your medium depends on the class you aim to reach. If the class is architects or builders, your medium is "The Guide."

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

Small ideas, small methods, small men are becoming antiquated. This is the day of the broad outlook and big doings.

SURE.

Stick to your work, forget the mob,
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.

Good fortune often chooses the most unlikely of messengers to herald its coming.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Craig Bros., 329 Walnut st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co.,
1713 Sansom st., Phila.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Fireproofing.

Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
J. Reynolds & Son, 1615 Filbert st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

The Fairbanks Co., 7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Painting.

R. J. Carrick, 2016 Ranstead St., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
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4th and Callowhill sts., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Pipe Fittings and Valves.

Hunter & Dickson Co., 241 Arch st., Phila.
The Fairbanks Co., 7th and Arch sts.

Plumbing Fixtures.

Camden Pottery Co., Camden, N. J.

Preservatives (Wood and Concrete).

F. E. Sagendorph, 437 Chestnut st., Phila.

Radiators.

H. B. Smith Co., 1225 Arch st., Phila.

Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
William Thomson, 64-66 N. 2nd st., Phila.
Liberty Stove Co., 114 N. 2nd st., Phila.
J. Reynolds & Son, 1615 Filbert st., Phila.

Reinforcing Fabric.

Payne & Scammell, Land Title Bldg., Phila.

Refrigerators.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.

Roofing.

Barrett Mfg. Co., N. Y. City and Phila.
Benjamin Foster Co.,
22nd and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange.

Roofing Tile.

C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

The Fairbanks Co.,
7th and Arch sts.

Sanitary Flooring.

Embossed Wall Covering Co., 880 N. 48th st.

Sewer Pipe and Flue Linings.

C. F. Shellenberger, Builders' Exchange.

Sash Pulleys.

American Pulley Co.,
4200 Wissahickon ave., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Steel Ceilings.

The Sagendorph Co., Lafayette Bldg., Phila.

Structural Engineer.

Harry C. Eisenbise Co., Penna. Bldg., Phila.
Chas. H. Kohn & Co., Heed Bldg., Phila.

Terra Cotta (Architectural).

S. B. Dobbs, Bailey Bldg., Phila.
O. W. Ketcham, Builders' Exchange, Phila.

Test Borings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Tile and Terrazza Work.

Belfi Bros. & Co., 20-22 S. 19th st., Phila.

Wall Board—Compo.

Howard Ketcham, 3rd & Girard ave., Phila.

Waterproofing.

Benjamin Foster Co.,
22nd and Sedgley ave., Phila.
Ceresit Waterproofing Co.,
Westminster Bldg., Chicago
A. T. Schreiber, Agent,
1218 Chestnut st., Phila., Pa.
Standard Paint Co.,
100 William st., New York City.

Weather Strip (Metal).

Heaton & Wood, 1802 Chestnut st., Phila.
Diamond Flexible Metal Weather Strip Co.
Geo. R. C. Johnston, Drexel Bldg., Phila.
S. B. MacDowell & Son,
1927 Montgomery ave., Phila.

Window Screens.

S. B. MacDowell & Son,
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Federal Terra Cotta Company

Architectural Terra Cotta

Gray, Buff, and Red Shades in Vitreous Finish, Matt and Full Glaze in White, Cream, Polychrome and Granite Colors

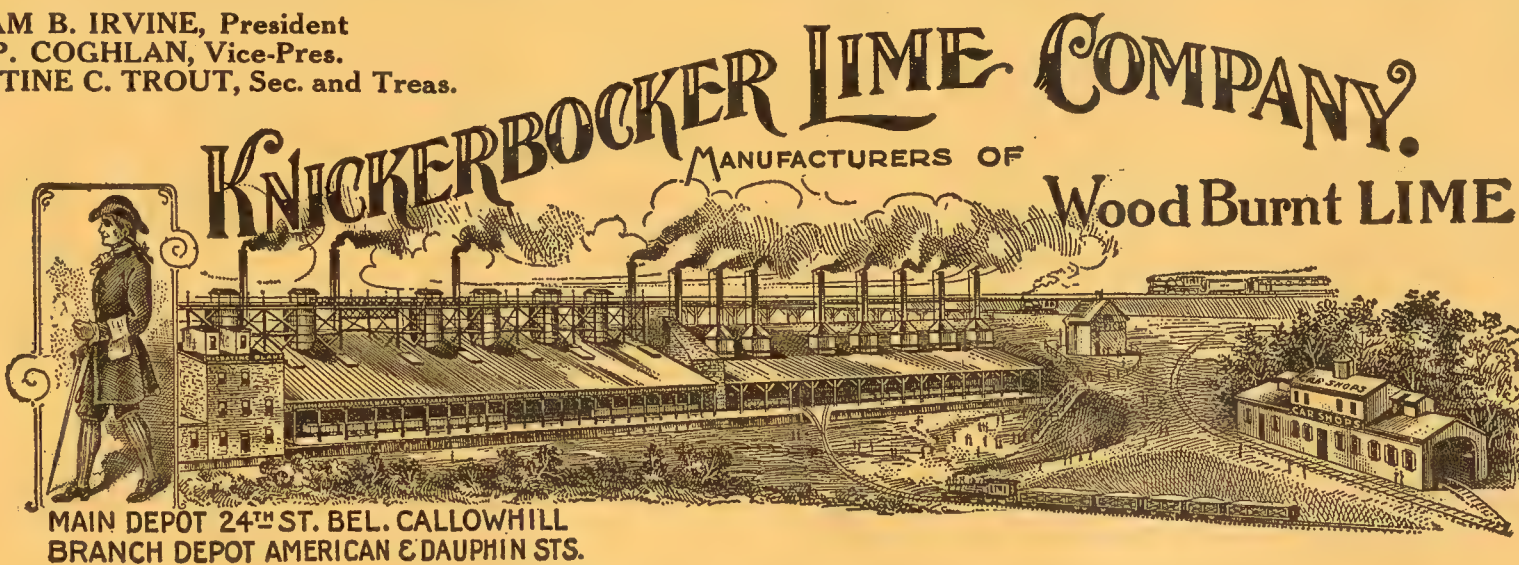
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Vol. XXIX., No. 36.

PHILADELPHIA, WEDNESDAY, SEPTEMBER 9, 1914.

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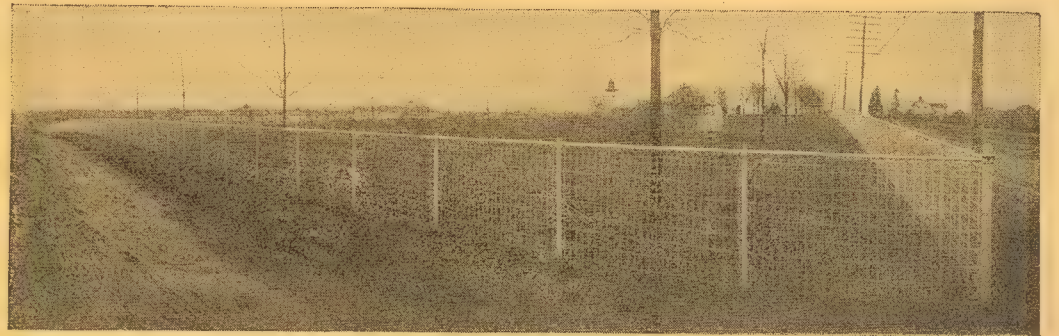
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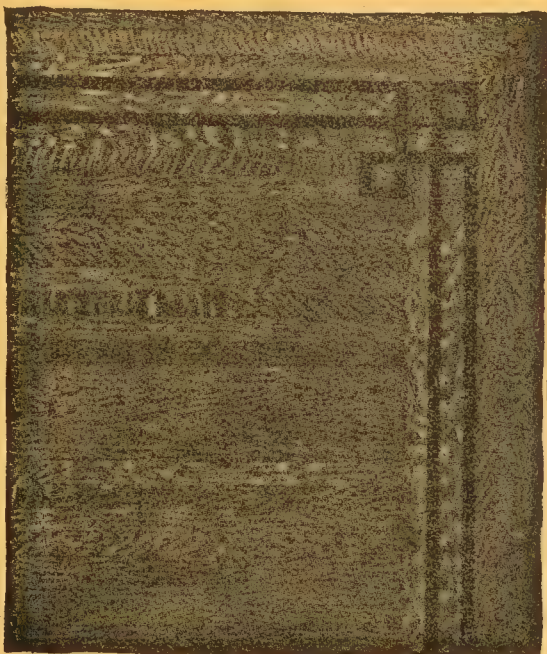
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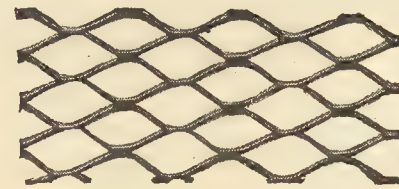
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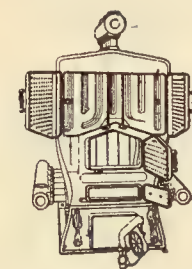
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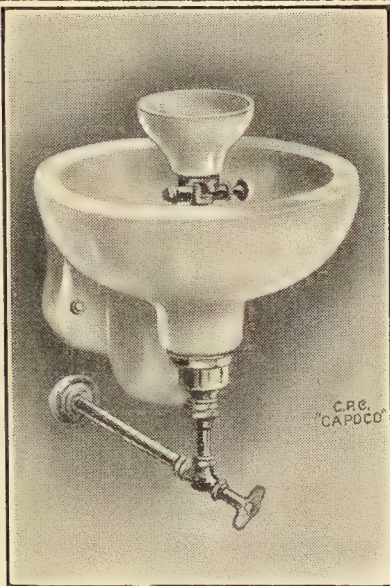


Plate 203 D
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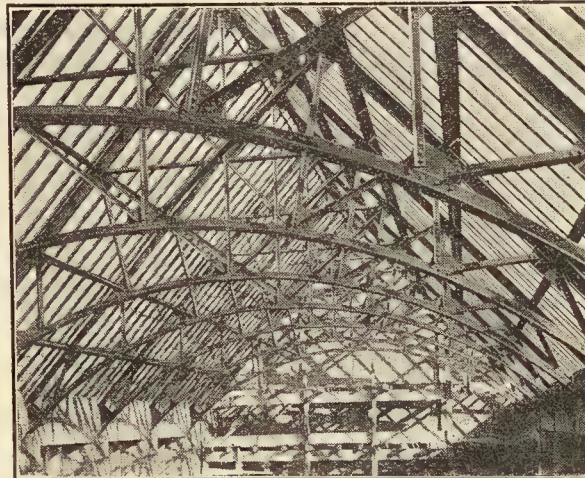


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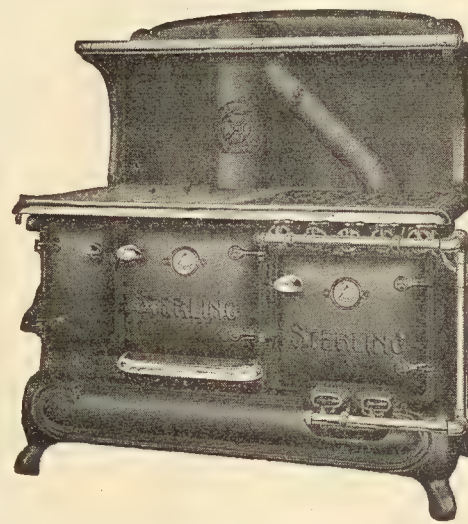
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Vol. XXIX., No. 36.

PHILADELPHIA, WEDNESDAY, SEPTEMBER 9, 1914.

Less than One Year
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory, Thompson and Cumberland streets, Philadelphia. Architects, Charles Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Abbott Estate, Broad and Race sts., Philadelphia. Brick, 2 stories, 60x80 feet, slag roof (heating and lighting reserved). Revised plans in progress.

Parish House, Germantown avenue and Greene street, Germantown. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Trinity Lutheran Church, care of Rev. L. De Yoe, 5300 Germantown avenue, Philadelphia. Brick and plaster, 2½ stories, 60x90 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Residence, Conshohocken, Phila. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, H. Wood, Jr., 1016 Spruce street, Philadelphia. tSone, 2½ stories. Plans in progress.

Factory Building, Allegheny avenue and Rosehill street, Philadelphia. Architect, Ivan B. Scovill, care of owner. Owner, Industrial Tape Mills Co., Jasper and Huntingdon sts., Philadelphia. Brick, 3 stories, 73x225 feet, slag roof, metal sash and frames. Owner has received revised bids.

Club House, 1616 Master street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owners, Young Men's Hebrew Association, care of Morris Wolf, Secretary. Brick, steel and terra cotta, 4 stories, 160x110 feet, slag and tile roof, metal lath, waterproofing and dampproofing (heating and lighting separate bids). Architects taking bids due September 10th. In addition to those previously reported, Charles Gilpin, Harrison Building, is figuring.

Residence (alt. and add.), 1931 North Thirty-third street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Harry Sack, on premises. Brick, 4 stories, slag roof, hot water heating, electric lighting, oak floors. Revised plans in progress.

Store and Office Building, 304 Arch street, Philadelphia. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owners, Friends' Book Store, on premises. Brick and steel, fireproof, 6 stories, 40x80 feet, slag roof

(heating and lighting reserved). Architects have received revised bids.

High School, Oxford and Wakefield streets, Frankford, Philadelphia. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and stone, fireproof, 4 stories, 200x295 feet, slate roof (heating and lighting separate bids), waterproofing, enameled brick, metal frames and sash, metal lath. Owner has received bids.

Central High School (add.), Broad and Green sts., Phila. Architect, J. Horace Cook, Land Title Building, Philadelphia. Brick and terra cotta, 1 story, 50x90 feet, composition roof, metal lath (heating and lighting separate bids). Owner has received bids.

Picture Theatre, Frankford and Columbia avenues, Philadelphia, \$40,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. N. Kennedy, Jr., Mutual Life Building, Philadelphia. Brick and terra cotta, 1 story, 82x152 feet, slag roof, steam heating, electric lighting. Plans about completed. Owner ready for bids.

Residence, Fifty-fourth street and Overbrook, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, E. H. Reuss, 921 South Forty-sixth street, Philadelphia. Stone, 2½ stories, 30x40 feet, slate roof, hot water heating, electric lighting, hardwood floors. Owner taking bids due September 18th. A. L. Fretz & Sons, 1222 Chancellor street; John Wolf, Forty-first street and Lancaster avenue; John Sullivan, Forty-ninth street and Woodland avenue, are figuring.

Store and dwelling, Limekiln Pike and Cora street, Philadelphia. Architect, J. D. Allen, 908 Chestnut street, Owner, name withheld. Brick, 2 stories, 50x65 feet, slag roof, steam heating, electric lighting. Architect taking bids due September 10th. W. J. Gruhler, 219 East High street, Germantown; John Dagny, Oak Lane; John Morrow Construction Co., 308 South Twelfth street, Philadelphia, are figuring.

Bakery and Dwelling, Fifth and Lombard streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner,

Samuel Bogeslofsky, 1621 South Sixth street, Philadelphia. Brick, 3 stories, 18x62 feet, sla groof, hot water heating, electric lighting, metal lath, waterproofing. Architect taking bids due September 9th. F. Bennett & Sons, Drexel Building, and B. Bernstein, 412 South Fifth street, Philadelphia, are figuring.

Factory, Eighty-fourth street and Eastwick avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, Eastern Lamp Co., 227 Gaskill street, Philadelphia. Brick, 1 story, 40x125 feet, slag roof, steam heating, electric lighting. Architect taking bids due September 10th. In addition to those previously reported, Elfreth & Wood, 1708 Sansom street; T. C. Trafford, 1613 Sansom street; Monaghan & Losse, 218 South Twelfth street, and A. Whitehead, Inc., 1624 Latimer street, Philadelphia, are figuring.

Picture Theatre, Frankford and Columbia avenues, Philadelphia, \$40,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. M. Kennedy, Jr., Mutual Life Building, Philadelphia. Brick and terra cotta, 1 story, 82x152 feet, slag roof, steam heating, electric lighting, metal lath. Owner taking bids due September 10th. J. Richard Jackson, Perry Building; Humphrey Construction Co., 1618 Thompson street; Mosca Bros., Twenty-second street and Indiana avenues, and Davis Pennock, 901 South Fifty-fourth street, all of Philadelphia, are figuring.

Church, Sixth street and Erie avenue, Philadelphia, \$25,000. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owner, Italian R. C. Church, Rev. Paul Gentile, 726 Erie avenue, Philadelphia. Stone, 1 story, 50x98 feet, slate roof, steam heating, electriect lighting. Owner has received bids.

Shipping Building, Fifth street and Fairmount avenue, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, H. K. Wampole & Co., 426 Fairmount avenue, Philadelphia. Brick, story, 25x90 feet, slag roof. Architects have received bids.

Residences (8), Willow Grove avenue and Ardleigh street, Chestnut Hill. Architect, Paul A. Boyd, 211 East Willow Grove avenue, Philadelphia. Owner, George A. Boyd, 211

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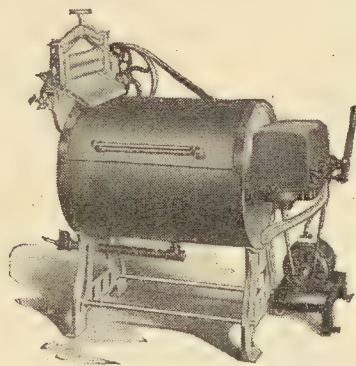
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East Willow Grove avenue, Philadelphia. Brick, 2 stories, 16x53 feet, slag and shingle roof, hot water heating, electric lighting. Owner taking sub-bids.

Picture Theatre, Frankford and Columbia avenues, Philadelphia, \$40,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. M. Kennedy, Jr., Mutual Life Building, Philadelphia. Brick and terra cotta, 1 story, 82x152 feet, slag roof, steam heating, electric lighting, metal lath. Owners taking bids due September 10th. J. Richard Jackson, Perry Building, Philadelphia, is figuring.

Apartments (alt. and add.), 942 South Forty-ninth street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, A. H. Jacobs, on premises. Brick and plaster, 4 stories, slate and slag roof, steam heating, electric lighting. Architect taking bids due Sept. 10th. (Metal lath.) F. L. Hoover & Sons, 1023 Cherry st.; H. E. Grau Co., 1709 Sansom street; H. L. Brown, 1714 Sansom street; M. W. Young, Overbrook, Philadelphia, are figuring.

Residence (alt. and add.), 212 High street, Germantown. Architect, private plans. Owner, A. P. Valentine, Jr., care of Bureau of Building Inspections, City Hall, Philadelphia. Stone, 3 stories, 10x18 feet, tin roof, oak floors (steam heating and electric lighting reserved). Owner taking bids, due September 11th. W. J. Gruhler, 219 High street; Stacy Reeves & Sons, 2011 Market street; Burd P. Evans Co., Thirteenth and Wallace streets; J. E. Walt, 204 East Willow Grove avenue; Samuel Harting, 20 East Johnson street; George C. Fossell, 128 East Chelton avenue; I. A. Dunkelberger, 71 East Herman street; W. C. Wright, 22 Harvey street; H. H. Cluck, 170 East Walnut lane, are figuring.

Stores and Dwelling, 612 to 618 South Fourth street, Philadelphia. Architect, private plans. Owners, Kenin & Rosenthal, 830 South street, Philadelphia. Brick, 2 stories, 50x80 feet, slag roof, steam heating, electric lighting. Plans in progress. Owners will take sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Thirteenth and Hamilton streets, Philadelphia. Architect, private plans. Owner, Redman Real Estate Co., on premises. Brick and concrete, 3 stories, 100x150 feet, tin roof, electric light. Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Warehouse (add.), Ninth and Ontario sts., Philadelphia, \$3,000. Architects, private plans. Owner, Surpass Leather Co., on premises. Corrugated iron and steel, 1 story, 50x60 feet, slag roof. Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Club House (alt. and add.), 1312-14-16 N. Broad street, Philadelphia, \$150,000. Owner, Loyal Order of Moose, No. 54, on premises. Brick and terra cotta, fireproof, 4 stories, 74x190 feet, slag and tin roof, steam heating,

lath, dampproofing. Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia. (Note change.)

Mill Building (add.), 2415-17 North Howard street, Philadelphia, \$15,000. Architects, Heacock & Hokanson, aBiley Building, Philadelphia. Owner, Thomas L. Leedom Estate, on premises. Brick, 4 stories, 34x45 feet, slag roof, metal sash and frames (heating and lighting reserved). Contract awarded to Barclay White Co., Perry Building, Philadelphia.

Fire House (alt. and add.), 1325 Race st., Philadelphia, \$8,500. Architect, Edw. A. Crane, City Hall, Philadelphia. Owner, City of Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to F. Roe Searing, Perry Building, Philadelphia.

Fire House (alt. and add.), Fourth street

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Easy to the Foot, Inexpensive, Quickly Installed.
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concrete or any good foundation.

and Girard avenue, Philadelphia, \$2,450. Architect, Edw. A. Crane, City Hall, Philadelphia. Owner, City of Philadelphia. Brick, 2

stories, slag roof, steam heating, electric lighting. Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

PENNSYLVANIA Construction News

Church and Sunday School, Easton, Pa., \$30,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Luke's Lutheran Church, Eleventh and Feery streets, Easton, Pa., care of Rev. A. M. Sthmp. Stone, 1 story and basement, 50x100 feet, slate roof, steam heating, electric and gas lighting, maple floors. Revised plans in progress.

School, Myerstown, Pa., \$30,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, care of E. L. Bleistein, Secretary. Brick or stone, 2 stories, slag roof, electric lighting. Architect will take bids this week.

Bank, Seventh and Lehman's street, Lebanon streets, Lebanon, Pa., \$10,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Northside Bank, Lebanon, Pa. Brick and terra cotta, 1 story, 20x60 feet, Carey roof, steam heating, electric lighting, tile floors, metal lath, waterproofing and dampproofing. Architect taking bids due September 9th. G. H. Greiner, Harry Buffmoyer, George A. Speicher, A. H. Whitmer, S. J. B. Spenger, all of Lebanon, Pa., are figuring.

Residence, Seventeenth and Court streets, Allentown, Pa., \$8,000. Architect, Jacoby & Weishampel, Commonwealth Building, Philadelphia. Owner, James Holman, Allentown, Pa. Terra cotta, tile and stucco, 2½ stories, 38x40 feet, tile roofing, combination lighting, hardwood floors. Architects taking bids, due September 11, 1914. The following are figuring: Ritter & Smith, George Stump, W. A. Stein & Bro., E. Allenecht & Sons, Butz & Clader, all of Allentown.

Nurses' Home, Allentown, Pa., \$60,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Allentown Hospital Association, Allentown, Pa. Brick and stone, 3½ stories, 45x190 feet, slate or slate roof, electric lighting, hardwood and tile floors (heating reserved), metal lath. Architects taking bids, due September 11th. Ochs Const. Co., Stein & Co., Jacob Nagle, E. F. Peters, George Hardner, W. H. Gangewere, all of Allentown, Pa., are figuring.

Residence, Radnor, Pa., \$40,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Mills, Bryn Mawr, Pa. Stone and plaster, 2½ stories, 138x77 feet, tile roof, electric lighting, hardwood floors (heating, lighting and plumbing reserved). Architect has received bids.

Bungalows (8), Norristown, Pa. Architect, private plans. Owner, Lewis A. Irons, Norristown, Pa. Brick and plaster, 1½ stories, 20x40 feet, shingle roof, hot water and steam heating, electric lighting. Plans in progress.

Residence, Larchmond, Pa. Architect, A. B. Gill, 1655 North Fifty-sixth street, Philadelphia. Owner, H. W. Bowman, care of architect. Frame, 1½ stories, 26x52 feet, shingle roof, hot air heating, electric lighting. Architect taking sub-bids.

Office Building (alt.), Sixth and Welsh

streets, Chester, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Suburban Gas and Electric Co., Chester, Pa. Brick, 3 stories, tile and slag roof, consists of new roof and skylights. Architects taking bids, due September 11th. William R. Dougherty, 1610 Sansom street; Smith-Hardican Co., 106 Cherry st., Phila.; H. Lewis Morris, Chester, Pa.; Nolan Bros., Chester, Pa., are figuring.

Cow Barn, Bryn Mawr, Pa. Architect, C. Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. W. B. Saunders, Bryn Mawr, Pa. Stone, 2 stories, 25x100 feet, shingle roof. Architect taking bids, due September 11th. The following are figuring: M. W. Young, Overbrook, Philadelphia; W. Harry Roberts, Newtown Square, Pa.; F. H. Mahan, Ardmore, Pa.; George L. Croll, Rosemont, Pa.

Residence, Paoli, Pa. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, Gordon H. Cilley, 207 Church road, Ardmore, Pa. Stone, 2½ stories, 40x60 feet, shingle roof, hot water heating, electric lighting, oak floors. Architect taking bids, due September 9th. The following are figuring: M. W. Young, Overbrook, Pa.; J. E. Kearney, 327 North Sixty-third street; J. Paul Emrey, North Wynnefield, Pa.; W. H. Russell, Paoli, Pa.; Mowrer Bros., Merion, Pa.; E. E. Ruth, Malvern, Pa.

Residence and Garage, Wawa, Pa., \$30,000. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Mrs. Florence Wood, 2211 St. James Place, Philadelphia. Stone, 3 stories, 50x110 feet, slate roof (heat and lighting reserved), oak floors, hollow tile partitions, metal lath. Architects taking revised bids, due September 9th. Specht & Sperry, Heed Building, is figuring.

Garage, Laverock, Pa. Architects, Furness, Evans Co., Provident Building, Philadelphia. Owner, F. Rosengarten, Ninth and Parrish streets, Philadelphia. Frame and plaster, 2 stories, 20x35 feet, slate roof, electric lighting. Architects have received bids.

Cottage, Ringtown, Pa. Architect, I. H. Francis, Commonwealth Building, Philadelphia. Owners, Girard Water Co., Ringtown, Pa. Stone, 1½ stories, 34x35 feet, slate roof. Owners have received bids.

Residence (alt. and add.), Conshohocken, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owners, Sisters of St. Joseph, Conshohocken, Pa. Brick, 3 stories, 40x60 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due September 10th. The following are figuring: William R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; Melody & Keating, Baily Building; W. J. McShane, 417 South Thirteenth street, all of Philadelphia, and M. F. Lawler, Norristown, Pa.

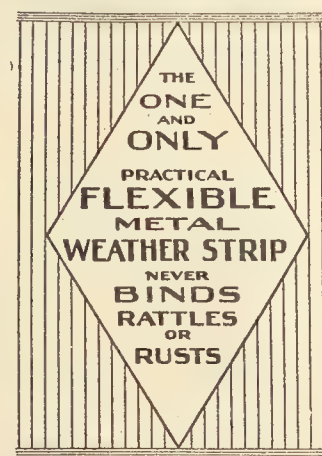
Residence, Conshohocken, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Phil-

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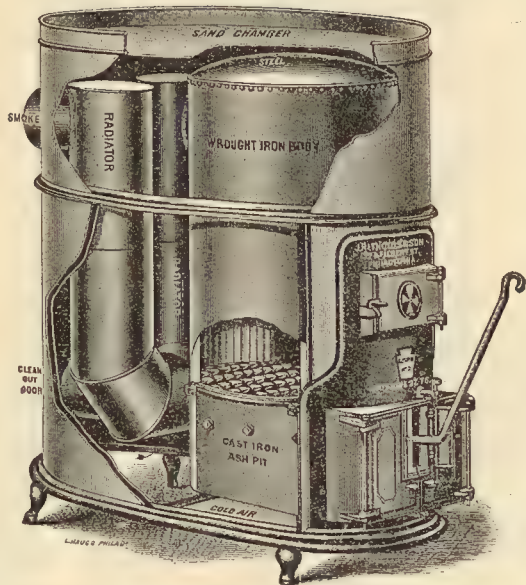
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Philadelphia. Owner, H. Wood, Jr., 1016 Spruce street, Philadelphia. Stone, 2½ stories, 71x96 feet, slate roof, hot water heating, hardwood floors. Architects have received bids.

Parochial School, Columbia, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, St. Joseph's R. C. Church, care of Rev. P. G. Brueggeman, Columbia, Pa. Stone and brick, 2 stories, 86x143 feet, slate and slag roof (heating reserved), metal lath. Architect taking bids, due September 12th. The following are figuring: William R. Dougherty, 1610 Sansom street; G. W. Taules, Columbia, Pa.; Stapf & Benfer, Harrisburg, Pa. Plans on file at architect's office for use of sub-contractors.

Residence, Ridley Park, Pa. Architect, private plans. Owner, J. M. Sinclair, Ridley Park, Pa. Stone and frame, 2½ stories, 31x40 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Owner has received bids.

Garage, Strafford, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, Lewis L. Smith, Strafford, Pa. Stone, 1½ stories, 25x37 feet, slate roof

(heating and lighting reserved). Architect has received revised bids.

Residence (alt. and add.), Narberth, Pa. Architect, Wesley L. Blithe, 608 Chestnut street, Philadelphia. Owner, John B. Williams, care of Curtis Publishing Co., Sixth and Walnut streets, Philadelphia. Stone and frame, 2½ stories, 40x50 feet, shingle roof, steam heating, electric light, tile floors. Architect has received bids.

Garage, Ardmore, Pa. Architect, J. C. Norton, Bryn Mawr, Pa. Owner, David Dallas, Ardmore, Pa. Brick, fireproof, 2 stories, 45x200 feet, slag roof, steam heating, electric lighting, metal lath, sash and frames. Revised plans in progress. Bids in a few days.

High School, Kingston, Pa., \$125,000. Architects, Sturdevant & Poggi, Wilkes-Barre, Pa. Owner, Board of Education. Brick and terra cotta, 3 stories, 186x69 feet, slag roof, direct and indirect steam heating. Plans in progress.

Residences (2), Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, Y. O. Sherry, Wyomissing, Pa. Brick and frame, 2½ stories, 30x50 feet, slate roof, steam heating, gas and electric lighting. Plans in progress.

PENNSYLVANIA Contracts Awarded

School, Cheltenham, Pa., \$21,910. Architect, H. C. Wise, Franklin Building, Philadelphia. Owner, Board of Education, care of J. Holden, Fox Chase, Philadelphia. Brick, 2 stories, 52x75 feet, slate roof (heating and lighting separate bids). Contract awarded to Joseph Bird Co., 213 North Eleventh street, Philadelphia.

Home Buildings, Cheyney, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Shelter for Colored Orphans, Forty-fourth and Wallace streets, Philadelphia. Consists of administration building and two dormitory buildings, hollow tile and plaster, 2 stories, 50x70 feet, formitories 70x50 feet each, slate roofs (steam heating, electric lighting, sewage disposal plant reserved). Contract awarded to R. C. Ballinger & Co., 216 North Thirteenth street, Philadelphia.

Gardner's Cottage, Reading, Pa., \$4,500. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, John D. Horst, Reading, Pa. Stone, 2½ stories, 28x43 feet, slate roof. Owner taking bids on heating and lighting. Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Philadelphia, Pa.

Hays School (add.), Wilson Township, Pa., \$18,000. Architects, Leh & Bitting, Bethlehem, Pa. Owner, Board of Education, Easton, Pa. Brick, 2½ stories, 40x68 feet, slate roof, steam heating, electric light (steam heating

reserved). Contract awarded to Stoudt & Mertinger, Bethlehem, Pa.

High School, Seventeenth and Turner streets, Allentown, \$250,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Board of Education, T. P. Wenerer, Secretary, Allentown. Brick, 3½ stories, 250x150 feet, slate roof, tile floors, metal lath, waterproofing and dampproofing (heating and lighting reserved). Contract awarded to Geo. H. Hardner, Allentown, Pa.

Residence, Wyomissing, Pa., \$35,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, H. K. Janssen, Wyomissing, Pa. Stone, 3 stories, tile roof, hot water heating, combination lighting, tile and hardwood floors, metal lath, dampproofing and waterproofing. Contract awarded to George A. Koch, 1024 Robeson street, Reading, Pa.

Barn, Media, Pa., \$7,500. Architect, Newton Flounders, Media, Pa. Owner, Samuel G. Matthews, Rose Tree, Pa. Stone and frame, 2 stories, 50x100 feet, shingle roof, electric lighting. Contract awarded to J. B. Flounders, 1329 Arch street, Philadelphia.

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NEW JERSEY

Construction News

Church (alt. and add.), Trenton, N. J., \$10,000. Architects, W. W. Slack & Sons, Trenton, N. J. Owner, Christ Episcopal Church, care of Rev. Trenboth, Trenton, N. J. Stone, 1 story, 20x60 feet, slate roof, electric lighting, tile floors. Architects taking bids. The following are figuring: Burton & Burton, Sidney La Rue, Scott & Day, I. Harper Clayton, Lewis Randell, William J. & J. H. Morris, all of Trenton, N. J.

Church, Raritan, N. J., \$25,000. Architect, W. P. Endebrock, 135 East State street, Trenton, N. J. Owner, Father Ketterer, Raritan, N. J. Rough Tex. brick, terra cotta and limestone, 50x110 feet, slate roof, combination lighting, hardwood floors, metal lath, waterproofing and dampproofing. Architects taking bids, due September 10th. The following are figuring: Philip Hickey, Somerville, N. J.; John Conover, Hall Bros., Chas. Widemeir, John Lewis, Joseph Sheck, all of Sayreville, N. J., and Mather & Sons, Trenton, N. J.

Residence, Trenton, N. J. Architect, W. Thines, Commonwealth Building, Trenton, N. J. Owner, George Gambles, Trenton, N. J. Brick and frame, 2½ stories, 24x26 feet, slate roof, hot water heating, combination lighting, hardwood floors. Plans in progress.

Pavilions (2), Morris Plains, N. J., \$9,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, New Jersey State Hospital, care Bowman Warden, Morris Plains. Brick and frame ant glass, 1 story, 40x60 feet, slag roof, electric lighting. Owner taking bids, due September 24th. Will advertise for bids this week.

Store and Factory, Merchantville, N. J. Architect, E. A. Westover, Keith Building, Philadelphia. Owner, Arthur E. Craig, Merchantville, N. J. Brick, 1 story, 30x60 feet, slag roof, steam heating, electric lighting. Owner has received bids.

School, Chesterfield, N. J., \$7,500. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, School Board, care of Miss Mary Braislin, Crosswicks, N. J. Brick, 1 story, 40x50 feet, slate roof, hot air heating, metal lath, safety treads. Owner has received bids.

Warehouse, Riverton, N. J. Architect, W. G. LeConey, Moorestown, N. J. Owners, J. S. Collins & Sons, Moorestown, N. J. Brick, 2 stories, 71x135 feet, composition roof, electric lighting. Plans in progress.

Residence, Camden, N. J. Architects, Borzner & Wood, 721 Walnut street, Philadelphia. Owner, J. N. Wilkins, Bourse Building, Philadelphia. Frame, 2½ stories, 25x32 feet, shingle roof, hot air heating, electric lighting, oak floors. Owner taking sub-bids on all lines.

Stores (3), Merchantville, N. J. Architect, W. G. LeConey, Moorestown, N. J. Owners, J. S. Collins & Sons, care of M. Magowan, Merchantville, N. J. Brick, 2 stories, 59x84

feet, composition roof, hot air heating, electric lighting. Owners have received bids.

Residence, Collingswood, N. J. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, W. Earle Powell, Merchantville, N. J. Brick and plaster, 1½ stories, 36x58 feet, shingle roof (hot water heating and electric lighting separate bids). Architects taking bids, due September 9th. Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, is figuring.

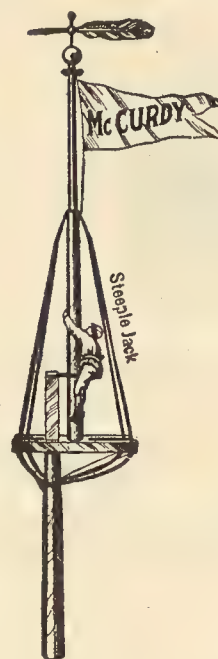
Boiler Room (alt. and add.), New York avenue, Trenton, N. J. Architect, W. Thines, Commonwealth Building, Trenton, N. J. Owners, Eureka Flint and Spar Co., on premises. Brick, 1 story, 40x40 feet, slate roof, electric lighting, concrete floors, ventilators. Owners will take sub-bids on all lines.

School, Pennsgrove, N. J., \$30,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owners, School Board, Pennsgrove, N. J. Brick, stone trimmings, 2 stories, 60x160 feet, slag roof, steam heating, electric lighting, metal lath, slate blackboards. Owners taking bids, due September 15th. The following are figuring: Metzger & Fisher, Denekla Building; George F. Pawling & Co., Broad and Vine streets, Philadelphia; Alex. Chambley, 243 South Tenth street; Wilbert Beaumont, Stephen Girard Building; H. H. Wehmeyer, 1004 West Lehigh avenue, all of Philadelphia; John S. Hamilton, 829 Orange street, Wilmington, Del.; H. H. Hankins & Bro., Bridgeton, N. J.; W. Richman, Moorestown, N. J.; Peterson Const Co., Clayton, N. J.; W. Titus, Paulsboro, N. J.; W. H. Johnson, Haddonfield, N. J.

Residence, Collingswood, N. J., \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, J. Earle Powell, Merchantville, N. J. Hollow tile and stucco, 1½ stories, 40x60 feet, slate roof, hot water heating, gas and electric lighting, oak floors. Architects taking bids, due September 9th. A. K. H. Doughty, 210 Lakeview avenue, Collingswood, N. J.; N. E. Boyer Co., 523½ Arch street; J. W. Draper, 436 Haddon avenue; Frank Turner, 828 Broadway, Camden, N. J.; Pomeroy Const. Co., 1609 Ranstead street; George Hogg, 1634 Sansom street, Philadelphia, are figuring.

Factory, Bordentown, N. J. Architect, M. Haupt, Drexel Building, Philadelphia. Owners, L. Forman & Sons, Bordentown, N. J. Brick, 1 story, 75x250 feet, slag roof, electric lighting. Revised plans in progress. Bids in a few days.

Hotel, Spring Lake, N. J. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owner, New Monmouth Hotel, Spring Lake, N. J. Brick, 5 stories, slate roof, consists of fifty story addition (heating and lighting reserved). Revised plans in progress.



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New Jersey Contracts Awarded

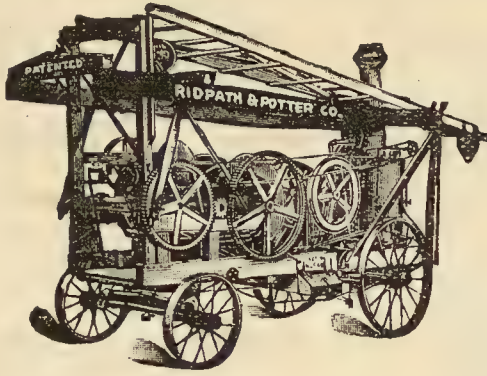
Residence (alt. and add.), 417 Bellevue avenue, Trenton, N. J., \$10,000. Architect, William A. Poland, 11 West State street, Trenton, N. J. Owner, Mrs. Charles E. Hewitt, 417 Bellevue avenue, Trenton. Brick and stucco, 3½ stories, slate roof, hot water heating, combination lighting, hardwood and tile floors. Contract awarded to William Musson, 632 Brunswick avenue, Trenton, N. J.

Residence, Bellevue avenue, Trenton, N. J., \$14,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owner, Walter F. Smith, Bellevue avenue, Trenton, N. J. Brick and stone, 2½ stories, 42x42 feet, slate roof, vacuum heating, combination lighting, hardwood floors and tile floors, metal lath, vacuum cleaner system, dumb waiters. Contract awarded to W. J. & J. H. Morris, Trenton, N. J.

Shipping Building, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 6 stories, 141x273 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, metal sash and frames, safety treads, elevators. Contract awarded to Cramp & Co., Denekla Building, Philadelphia.

Dining Building, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, 2 stories, 70x90 feet, slag roof, steam heating, electric lighting. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

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MARYLAND Construction News

Factory, Eager and Concord streets, Baltimore, Md. Architect, Charles M. Anderson, 324 North Charles street, Baltimore, Md. Owners, Dix Manufacturing Co., Guilford avenue, near Chase street, Baltimore. Reinforced concrete, 2 stories, 123x123 feet, slag roof, steam heating, electric lighting. Architect taking bids, due September 11th. The following are figuring: West Construction Co., Knickerbocker Building; Fred Decker & Son, 1208 East Biddle street; Henry Smith Sons Co., Light and German streets; D. M. Andrew & Co., Mt. Vernon and Twenty-sixth streets; Consolidated Engineering Co., Calvert Building; Henry L. Maas, 1109 Ensor street; J. H. Kelly, 1208 East Biddle street, and Clayburn & Johnson, all of Baltimore, Md.

Dwellings (10), Twenty-seventh street, near Guilford avenue, Baltimore, Md., \$14,000. Architect, G. B. Lehmmuller, 1735 North Broadway, Baltimore, Md. Owners, Annex Construction Co., Twenty-seventh and Guilford avenue, Baltimore, Md. Brick, 2 stories, 14x44 feet, tin roof, steam heating, electric lighting. Owners are taking sub-bids.

Dwellings (18), Thirty-eighth street, Baltimore, Md., \$40,000. Architect, Stanley Russell, 2900 Clifton avenue, Baltimore, Md. Owner, A. Silberstein, 2206 East Baltimore street, Baltimore, Md. Brick, 2 stories, 14x50 feet, slag roof, steam heating, electric lighting. Owner is taking sub-bids.

Stable, York road, Baltimore, Md., \$9,000. Architect, J. C. Spedden, 1640 Hanover street, Baltimore, Md. Owners, Slack & Slack Co., York road, Baltimore, Md. Brick and stone, iron work, 200x30 feet, slag roof, electric lighting. Plans in progress.

Power House, Towson, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owner, State Normal School, Towson, Md. Brick and concrete, 2 stories, 44x70 feet, composition roof, electric lighting, concrete floors. Architects taking bids. The following are figuring: West Construction Co., Knickerbocker Building; Consolidated Engr. Co., Calvert Building; Singer-Pentz Co., Equitable Building; Morrow Bros., Fidelity Building; J. Henry Miller, Inc., Eutaw and Franklin streets; C. L. Stockhausen, Gay and Water streets; Edw. Brady & Son, Cathedral and Howard streets; D. M. Andrew & Co., Mt. Vernon and Twenty-sixth streets; Sweetser Linthicum, Jr., 217 St. Paul street, all of Baltimore, Md.

Residence, Garage and Stable, Upland, Md., \$45,000. Architect, E. L. Palmer, Roland Park, Md. Owner, Dr. Donald Hooker, Belvidere avenue, near Falls road, Baltimore, Md. Stone, 2 stories, 95x31 feet, 24x24 feet and 24x31 feet, slate roof, hot water heating, electric lighting, concrete floors. Architect taking bids, due September 7th. The following are figuring: Roland Park Co., Roland Park, Md.; S. Walter Tovell, Eutaw and Dolphin streets; Gladfelter & Chambers, 2072 Woodberry ave-

nue; Cowan Building Co., 106 West Madison street, all of Baltimore, Md.

Chapel, Riderwood, Md. Architect, Thomas Bond Owings, 347 North Charles street, Baltimore, Md. Owner, Trinity Parish, Riderwood, Md. Brick, 1 story, shingle roof, steam heating electric lighting. Architect received bids September 9th.

Residences (4), Twenty-third street, near Guilford, Baltimore, Md. Architect, Henry J. Tinley, Saratoga and St. Paul streets, Baltimore. Owner, Rufus Wood, 950 Equitable Building, Baltimore, Md. Brick, 2 stories, slag roof, hot air heating, electric lighting. Owner is sub-letting all contracts.

Cottages (2), Ten Hills, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owner, Ten Hills Corporation, Title Building, Baltimore, Md. Frame, 2½ stories, slate roofs, steam heating, electric lighting, tile work. Plans in progress.

Residence, Brooks lane, near Eutaw Place, Baltimore, Md. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owner, Jacob Goldstein, 422 Equitable Building, Baltimore. Brick, 3 stories, tin roof, hot water heating, electric lighting, tile work. Plans completed. Owner will probably take sub-bids.

Store and Residence, 605 South Charles street, Baltimore, Md. Architect, John Freund, Jr., Hoffman Building, Baltimore. Owners, H. Kreiger & Sons, 1 East Lee street, Baltimore, Md. Brick, stone trimmings, slag roof, steam heating, electric lighting, tile work, store fixtures. Architect taking bids. Julius Cohen, 627 South Charles street, Baltimore, is figuring.

Residences (5), Chestnut avenue, Baltimore, Md., \$12,000. Architect, Henry J. Tinley, Saratoga and St. Paul streets, Baltimore, Md. Owners, Gordon Realty Co., care of William W. Cooke, 210 Law Building, Baltimore, Md. Brick, 2 stories, slag roofs, electric lighting, furnace heating. Owners are sub-letting all contracts.

Apartment Houses (2), Linden avenue, near Druid Hill Park, Baltimore, Md. Architect, Henry J. Tinley, Saratoga and St. Paul streets, Baltimore, Md. Owner, Joseph Burman, care of architect. Brick, 3 stories, 74x46 feet, slag roofs, steam heating, electric lighting, tile work. Architect taking bids. West Construction Co., Knickerbocker Building, is figuring.

Maryland

Contracts Awarded

Rectory, Preston and Luzerne streets, Baltimore, Md., \$15,000. Architects, Baldwin & Pennington, 330 N. Charles street, Baltimore.

Owner, St. Catherine's R. C. Church, on premises, care of Rev. William Clements. Brick and stone, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to Monmonier & Serrell, 1711 McCulloh street, Baltimore, Md.

School, Ocean City, Md., \$22,800. Architect, T. W. Pietsch, American Building, Baltimore, Md. Owner, School Board of County, Pocomoke City, Md. Brick, 2 stories, slate and slag roof, steam heating, electric lighting. Contract awarded to W. D. Corddry, Snow Hill, Md.

Warehouse (add.), Charles and Pratt streets, Baltimore, Md., \$3,000. Architect, private plans. Agents, Baldwin & Frick, Keyser Building, Baltimore, Md. Brick, consists of additional story, slag roof, iron work. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore, Md.

Bank (alts. and adds.), Salisbury, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, Salisbury National Bank, Salisbury, Md. Brick, 1 story, tin roof, electric lighting, steam heating, tile and marble work, banking fixtures. Contract awarded to Banking Building Bureau, 106 East Nineteenth street, New York City.

Factory, Westport, Md. Architect, private plans. Owners, Maryland Veneer and Basket Co., Westport, Md. Brick, 2 stories, 40x100 feet and 75x75 feet, slag roof, electric lighting. Contract awarded to Fidelity Construction Co., 1709 West Lexington street, Baltimore, Md.

Miscellaneous Construction News

Hotel (add.), Schenectady, N. Y. Architect, Charles A. Sussdorf, Albany, N. Y. Owner, John H. Meeham, Schenectady, N. Y. Brick, stone and steel, 8 stories, 50x100 feet, slag roof (heating and lighting reserved), metal lath, waterproofing and dampproofing. Architect taking bids due September 10th. Wells Construction Co., Witherspoon Building, Philadelphia, is figuring.

Store and Apartments, Annapolis, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Philip Miller, Annapolis, Md. Brick and steel, 3 stories, 46x120 feet, slag roof, hot water heating, electric lighting. Architect has received bids.

Theatre, Montreal, Canada. Architect, E. A. Westover, Keith Building, Philadelphia. Owner, B. F. Keith, New York City. Brick, steel and terra cotta, 1 story, 120x198 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Plans in progress.

Church, Wilmington, Del., \$80,000. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Hanover Presbyterian Church, Wilmington, Del. Stone, 1 story, 90x150 feet, slate roof (electric lighting, steam heating separate bids), tile work, metal lath, dampproofing and waterproofing. Architect taking bids, due September 9th. Note change. The following are figuring: A. S. Reed, W. D. Haddock, W. H. Jones & Sons, Charles Forwood, all of Wilmington, Del.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del., \$10,000. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, J. B. McHugh, Eighth and Church streets, Wilmington, Del. Stone or brick, 2½ stories, 37x40 feet, tile and shingle roof, vapor heating, gas and electric lighting, hardwood floors. Contract awarded to Alfred Downward, 409 Tatnall street, Wilmington, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Kleeman & Zowokoff (O), 8021 Lyons avenue. Cost, \$14,000. Ten dwellings, brick, 2 stories, 14x24. Cost, \$15,000. Ten dwellings, Tilton and Schiller streets.

Davis Rivers (O), 210 South Darien street. O. Thomas (C), 917 Rodman street. Cost, \$800. Dwelling, brick, 2 stories, 8x9 feet, 712 St. Marks street.

William Ralston (O), No. 687 West Johnson street. Cost, \$4,800. Two dwellings, brick, 2 stories, 16x42 feet, 687 West Johnson street.

Morris Gerson (O), 1601 South Fifth street. Cost, \$2,400. Dwelling, 2 stories, 16x30 feet. Cost, \$3,000. Dwelling, Richmond and Clementine streets.

F. L. Davis (O), Thirteenth and Nedro streets. Cost, \$3,000. Store and dwelling, brick, 2 stories, 16x43 feet, Nedro and Marvine streets.

Burkholder and Robinson (O), 5918 North Ninth street. Cost, \$2,300. Dwelling, stone, 2 stories, 19x30 feet, York road and Nedro streets.

Harry Miller (O), 719 Lycoming street. Cost, \$2,200. Store and dwelling, brick, 2 stories, 15x42 feet, Eighth and Bristol streets. Cost, \$10,200. Six dwellings.

Joseph Grablouski (O), Duncan and Bermuda streets. A. H. Nergorski (C), 2416 Orthodox street. Cost, \$1,800. One dwelling, brick, 2 stories, 16x55 feet. Cost, \$5,400. Three dwellings.

J. W. Orr (O), 3532 Kensington avenue. Cost, \$2,500. Dwelling, 2 stories, 16x48 feet, 7044 Torresdale avenue.

Frank Yoskin (O), Eightieth and Harley streets. Cost, \$8,000. Four dwellings, brick, 2 stories, 14x40 feet, Seventy-seventh and Bristol avenues.

J. C. Yundt (O), 301 West Tabor street. Cost, \$10,500. Seven dwellings, brick, 2 stories, 16x30 feet, Fourth and Ruscomb streets.

Louis Welman (O), 1718 South Fourth street. Cost, \$3,500. Store and dwelling, brick, 3 stories, 16x60 feet. Cost, \$4,000. Store and dwelling, Point Breeze avenue and Dickinson street.

E. P. Smith (O), 3017 Edgemont street. C. T. Gruber (C), 3017 Edgemont street. Cost, \$6,500. Factory, brick, 2 stories, 33x50 feet, Cedar and Wheatseaf streets.

Reinholdt & Ambrush (O), 6004 J street. Cost, \$2,700. Dwelling, brick, 2 stories, 16x40 feet, Greham and Oakley streets.

Loyal Order of Moose (O), 1312 North Broad street. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$144,000. Club, brick, 3 stories, 64x128 feet, 1312 North Broad street.

E. B. Sharp (O), 6139 Torresdale avenue. J. G. Sharp (C), 6139 Torresdale avenue. Cost, \$1,400. Dwelling, stone, 2 stories, 14x31 feet, 3941 Homestead street.

Alterations and Additions

Henry Wantlin (O), 498 Ripka street. C. M. Swartley (C), 6835 Ridge avenue. Cost, \$2,000. Garage, DuPont street and Ridge avenue.

Jerome Donohue (O), Drexel Building. F. I. Wintz (C), 1618 North Twenty-seventh street. Cost, \$2,158. Manufacturing, 307 North Eighth street.

Charity Hospital (O), 1731 Vine street. J. Borden Bros., (C), 637 North Nineteenth street. Cost, \$900. Hospital, 1731 Vine street.

P. McGarrigle (O), 5338 Germantown avenue. F. B. Davis (C), 240 North Sixteenth street. Cost, \$5,500. Garage, 5338 Germantown avenue.

J. L. Gaumer & Co. (O), 3846 Lancaster avenue. G. J. Watson (C), 907 North Marshall street. Cost, \$5,000. Manufacturing building, 3846 Lancaster avenue.

J. A. Maggroncald (O), 2328 Sydenham street. H. Voigt (C), 1251 North Twenty-eighth street. Cost, \$1,250. Shop, 2328 Sydenham street.

Lehigh Valley R. R. Co. (O), 212 South Third street. F. L. Hoover & Sons (C), 1123 Cherry street. Cost, \$5,500. Commission house, 118 South Delaware avenue.

C. J. Core (O), Fortieth and Ludlow streets. J. F. Hielbourn (C), 5218 Vine street. Cost, \$1,300. Hall, Fortieth and Ludlow streets.

American Rubber Reclaiming Co. (O), 410 Rittenhouse street. Stewart Bros. (C), 2526 North Orkney street. Cost, \$5,700. Factory, 410 Rittenhouse street.

R. T. Moorehouse (O), 2655 Bridge street. Cost, \$2,000. Storage building, 2655 Bridge street.

Bernstein & Son (O), 1035 North Front street. F. Thompson (C), 2825 Warnock

street. Cost, \$1,150. Manufacturing, 1035 North Front street.

W. T. Dougherty (O), 925 Race street. Louis Keebe (C), 1109 Dauphin street. Cost, \$1,525. Store, 925 Race street.

C. W. Sanders (O), 225 North Fourth street. E. Rieben (C), 2632 Cumberland street. Cost, \$1,400. Store and dwelling, 225 North Fourth street.

J. Elser (O), 3539 North Broad street. McLaughlin & McNamara (C), 3973 Elser street. Cost, \$5,400. Garage, 3959 North Broad street.

Lit Bros. (O), Eighth and Market streets. Cost, \$2,000. Store.

Surpass Leather Co. (O), Ninth and Westmoreland streets. George Kessler Cont. Co. (C), Drexel building. Cost, \$3,000. Warehouse, Ninth and Westmoreland streets.

S. W. Evans & Sons (O), 4623 Paul street. T. Summerfield (C), 4773 Worth street. Cost, \$1,600. Shop, Paul and Meadow streets.

Dr. T. S. Carlisle (O), Chestnut Hill, Pa. George S. Roth & Sons (C), 230 Gravers lane. Cost, \$1,100. Dwelling, Chestnut Hill, Philadelphia.

F. D. Green (O), 1421 Vine street. Cost, \$15,000. Garage, 338 North Thirteenth street.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—“Novelty News.”

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

PLACE AND VALUE OF THE TRADE PAPER.

“Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country.”—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—“Municipal Engineering.”

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrapper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in “Standard Advertising.”

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

THE ARCHITECT AND THE COUNTRY HOUSE

For a time, our architects have concerned themselves with the study of the country house, seeking to solve the problem on paper or by means of well-structured models. To-day this is changed. And the change is due, perhaps, to the fact that some of the more fortunate have grown with the country and by a wholesale appreciation of the delights of country life have been so inspired by its appeal as to broaden and deepen their architectural vision. It is now a question of living in the open country, rich with meadow and woodland, year in, year out, of studying the country as well as the problem from an architectural viewpoint. In other words, the problem is attacked from the ground up, rather than from the office down. The architect has been forced to readjust himself. He has realized that it is no longer incumbent upon him to confine the largest share of his attention to the treatment of openings, that is, to the size, position and shape of windows and doors, but to give to the plan and therefore to the roof more thought. This has led to an improvement in building materials, a more complete and broader study of the site, of its possibilities and outlook, so that, speaking frankly, our architect has become painter, and, after a fashion, with certain limitations and qualifications, a material man.

Brick concrete and the surface rendering of stucco upon frame, wire lath or walling of any description bear witness to the restoration of building material to its former exalted position. Economy (the desire to make a dollar go as far as possible) has had a clarifying influence upon the work. The architect is broader, bigger, more modern, more serviceable, more obedient to the needs of the living. At the same time, he is by no means forgetful of the vital principles of academic conceptions. He adapts them to daily requirements, re-translating them, reforming them to the changed order, and ennobles himself in the translation. The little word, texture, assumes to-day a new importance to the practicing architect. The same

may be said of the word, color; to him it is more potent than ever before. His attention is still centered upon form, upon outline of moldings, upon projections and upon the mysterious quality known as proportion.

The work of to-day is improved because it is more restful and soothing. It has more rhythm, balance and scale. It is not too far removed from the material itself, or from the reasonable ambitions of a self-respecting people. Our country houses are improving greatly because they are more English in their plan—in its adaptation to the site. Our roof lines are more carefully studied. Our chimneys are larger, higher, better centered and balanced. Our window and door openings are studied from within as well as from without.

A long and, for the most part, a peaceful conflict has been going on for years between the academic and the stately, the traditional and homely, or as it might be termed, the direct and romantic types of country house. The first pointing to the limited use of a few materials in a dignified manner, the other to a free employment of materials of many descriptions, each singularly adapted to its specific purpose. Perhaps, since it is well to salute the standard by naming the man closely associated with it, I may venture to speak of the work of Mr. Luytens, because of its prominence and because it is better to associate a principle with a living man than to discuss it academically.

We are no longer afraid of big wall surfaces, because in many cases nature covers the walling with her rich mantling of creepers, a delightfully fantastic interweaving.

It is splendid to think that into the hands of the architect has, to-day, been thrust the shining sword of truth, that he has been forced by the study of craftsmanship to realize the exalted privilege of so designing as to invite the humblest as well as the most noble materials to assume a prominent place.

—Samuel Howe in "The House eBautiful."

TASK AND BONUS WORK APPLIED TO EXCAVATION

How a Large Construction Company Saved Money by Paying Their Men More

No up-to-date manager need be told that a properly conceived and properly applied bonus system will reduce the unit cost of work. Just how much this reduction will be depends largely upon the work being done and the manner in which the bonus is applied.

A diagram recently printed shows how even such prosaic work as excavation—in mid-winter—may be made to yield results in

economy as well as rapidity of accomplishment. It is a record of work done by the Aberthaw Construction Company, Boston, Mass., in excavating for reinforced concrete factory building in New Haven, Conn., for the Acme Wire Company and the Oven Equipment and Manufacturing Company.

Work was started December 29th, with frost in the ground. The building represented by the diagram measures 400 by 62 feet, with

basement floor about 10 feet below natural grade. As the material excavated was used in bringing up the grade of depressions about other portions of the lot, the contractors decided to use wheel scrapers. In addition to the earth excavated, quantities of good sand were taken out and placed in storage piles, to be used later in concreting. The loam and top soil were first removed by the use of plows and frost wedges.

A study of the length of the haul and the number of wheel scraper loads per day showed that 120 loads—for a longer haul, 110 loads—made a full day's work. The teamsters, in their leisurely way and with apparent disinterest could haul at best only 120 or 130 loads. The application of the bonus to a task easily within limits of accomplishment changed the entire tone of the job from half-hearted endeavor to enthusiastic effort.

A bonus of 50 cents was given each driver who had made 120 loads or more during the day. The bonus was increased to \$1.00 for each man who made 150 loads—a mark which several reached. It was expressly stipulated that the horses should not be mistreated in reaching bonus figures and that loads which were not full would not be credited on the tally board. While these instructions were well followed, it is probable that the horses were worked to their limit.

In applying the chart it will be noted that the scale for net cost in cents per cubic yard is inverted. This was done for the purpose of making the three curves as nearly parallel as the facts would permit, and the result is a surprising uniformity in the trend of the curves, location of peaks, etc. As would naturally be expected, the unit of cost was lowest when the quantity and consequently the bonus were highest. The gain, however, from a cost of 35 cents per yard at the time the bonus was first applied to 25 cents and under for the peak of the curve, was very marked, involving, as it did, a saving of more than \$60 a day for the excavation during the period of highest output.

ANCIENT CITY OF PERU.

The ruins of Macchu Pichu, a city probably built by the Megalithic race, who preceded the Incas, were discovered by Hiram Bingham on his 1911 expedition to Peru. The ruins are on an almost inaccessible ridge, 2,000 feet above the Urubamba River. They are of great beauty and include palaces, baths, temples and about 150 houses.

The huge blocks of white granite, some of them 12 feet long, were so carefully cut that they match perfectly, says the "Argonaut." Though no mortar or cement was used to hold the stones together, the walls have withstood the elements for at least 2,000 years.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones. —Exchange.

PLACING THE RESPONSIBILITY FOR STATEMENTS IN SPECIFICATIONS.

The discussion of contract provisions oppressive to contractors has received a valuable addition from the United States Supreme Court in its recent opinion in the case of *Hollerbach & May*, where William B. King, a member of the National Association of Builders' Exchanges, successfully represented the contractors. The Government called for bids for repairing an old dam on the Kentucky River. The specifications stated that the old dam was backed with broken stone, sawdust and sediment. When the contractors did the work it was found to be backed with sound cribwork filled with stones, and the removal of this cost more than would the removal of broken stone, sawdust and sediment. The contractors therefore sued for this difference.

The government relied for its defense on general cautionary clauses in the specifications saying that bidders must visit the locality, make their own estimate of all difficulties and contingencies, ascertain the nature of the work and obtain the information necessary for an intelligent proposal. The contractors maintained that they were excused from doing this in regard to the backing of the dam because the specifications told them exactly what would be found there, and that they had a right to rely upon the statements on that subject in the specifications.

The Court of Claims agreed with the Government's contention. The Supreme Court took a view more liberal to the contractors, stating that the specifications unequivocally asserted what would be found behind the dam, and that the contractors had a right to presume that the Government spoke with knowledge and authority. Among other things, the court said: "We think this positive statement of the specifications must be taken as true and binding upon the Government, and that upon it rather than upon the contractors, must fall the loss resulting from such mistaken representations." Accordingly judgment was given against the Government for the excess costs incurred by the contractors.

This decision is of general importance because many contractors, particularly for foundation work, sewers or plumbing, sign contracts stating particular facts in positive terms. When more costly conditions are found to exist the contractors are told that these representations of facts are not binding on the owner because somewhere else in the specifications the contractors are told to be on their guard against everything. This decision of the Supreme Court answers this contention. It says that the contractors have a right to assume that positive statements in the specifications are true, and if not true that the burden does not fall on the contractor, but on the owner—the Government, the municipality or the individual, which has misrepresented the facts.

No one suffers from a mean disposition like the fellow who has one.

HEAT TRANSMISSION AND INSULATION OF BUILDINGS.

In the course of his address before the American Society of Heating and Ventilating Engineers at its July meeting in Cleveland, President S. R. Lewis dwelt upon the application of the idea of insulation against heat and cold to our buildings. He pointed out that while we spend time and dollars as well as skill and genius in elaborating the heat transmitting appliances and the fuel-consuming devices we give no more than a cursory investigation of the type of construction of building and no effort to influence its construction so as to reduce the heat losses. This he regarded as a crime against future generations. Continuing, he said:

There are instances available where 5 per cent. of the cost of the building, expended on heat transmission insulation rather than on a larger heating plant, saved in fuel charges alone its cost within three years. The field this opens up is almost unexplored. We know, however, how much more efficient as regards heat insulation is an ordinary sawdust packed icehouse than an ordinary dwelling, and how much longer heat is retained in an ordinary fireless cooker than in any part of the best insulated transmission department of an ordinary heating plant.

Greatest Enemy of Good Ventilation.

We know that poor insulation of walls and windows is the greatest enemy of good ventilation, preventing the proper diffusion of the fresh air. We know that tight windows or storm sash permit of very considerable fuel savings. We know that warm winter buildings are cool summer buildings. We know that a \$10,000 investment with a 5 per cent. interest charge is better for the borrower than an \$8,000 investment with a 20 per cent. interest charge. We seem, however, unable to get perspective enough to use this knowledge, else buildings with rattling windows and no storm sash, thin walls, cold attics and cellars, direct-indirect radiators, unduly high ceilings, single slab roofs, etc., coupled with the most elaborate and expensive heating plants, would cease to exist.

In our practice as engineers are we losing perspective in regard to the location in the room of the heat source? We learned, very early in our experience, that the heat transmission varies, among other things, in a certain proportion as the difference in temperature between the hot and cold objects varies. Is it then the best practice to place the hottest thing in a room against the coldest object? The dean of one of our greatest engineering schools agreed with me that in most instances the radiator location was far more a factor of the convenience of the occupants of the room than of their comfort. Granted reasonably tight windows and fairly well insulated walls, the radiator may be alongside the inside wall as satisfactorily as alongside the outside wall. May not the radiator be smaller—will not the piping be less expensive—will not the fuel cost be lower, if this procedure is carried out consistently?

Is it not a loss of perspective to cling to

the idea that air for ventilation shall all have been heated prior to its entry to a room? Our belief in this is traditional. Is it based on truth? It has been demonstrated that unheated air may be introduced into rooms under certain peculiar ideal conditions, and that under these conditions the air feels better to us than air which has been heated. This process has proven good for street cars. Shall we not hope for the development of the process for buildings, so perfected that it shall operate continuously and effectively? I believe that it will surely follow the construction of properly insulated buildings, and that we cannot approach perfect ventilation until we build insulated buildings.

BUILDING MANAGERS

Re-elect J. E. Randall President—Will Go to Atlanta Next Year.

Atlanta was chosen as the next convention city and last year's officers were re-elected at the closing business session of the greatest convention ever held by the National Association of Building Owners and Managers.

Throughout the convention, delegates from Atlanta, St. Louis and Omaha were vigorously campaigning among the other delegates, but the half carload of Georgia peaches sent up by Atlanta boosters—and lavish promises of Southern hospitality on the part of silver-tongued delegates—won.

On the first ballot Atlanta received 49 votes; St. Louis, 26, and Omaha, 15. The vote followed "impassioned" addresses by boosters for the three cities, in which Atlanta got first honors by a narrow margin. Atlanta's fight was conducted by Frederick House, secretary of the Convention bureau of his city.

The re-election of the 1914 officers set a precedent for the association, and the recommendations of John C. Knight, chairman of the Nominating Committee, surprised a great many of the convention's "dopesters," who had expected a vigorous contest for new officers. After Mr. Knight's speech, however, members of the association were enthusiastic in applause and the old officers were retained by a hearty verbal vote.

Official Personnel.

The list of officers is as follows: J. E. Randell, Chicago, president; Charles E. Doty, Cleveland, vice-president; C. A. Patterson, Chicago, secretary, and L. L. Banks, Pittsburgh, treasurer.

PRACTICAL APPLICATION OF THE QUANTITY SYSTEM.

In view of the discussion which has been going on for some time past relative to the quantity system in estimating it is interesting to note that the authorities in charge of the construction of the new Municipal Building at Wilmington, Del., have awarded their contracts based upon the quantity system of estimating. The contract for the Newcastle County building has also been let upon the same system.

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Irving Dillon. Editor

PHILADELPHIA, PA., SEPTEMBER 9, 1914.

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Editorial Comment

Chairman Powell Evans, of the Fire Prevention Committee of the National Fire Protective Association, is doing an important work in directing the attention of the public to the ease with which the annual fire loss can be reduced by the exercise of plain, every-day prudence. A large percentage of all the fires we experience owe their origin to carelessness quite as much as to poor construction. The appended list of items is suggested by Mr. Evans for the thoughtful consideration of those who wish to avoid fires:

1. Exposure Hazard: This danger from surrounding property is a heavy charge in every average city insurance survey and rate amounting often to one-third of the whole charge. Study your location and your exposure hazard thereon and the reasonable means of bettering your own property (such as fireproofing doors and windows and outside walls, extending fire walls above the roof, non-combustible roofs, etc.), so as to minimize this physical exposure hazard and consequent insurance rate.

2. Construction: A large part of your insurance survey and rate is always based on deficiencies in physical construction of your property. Study this (such as unprotected vertical and horizontal openings, too large areas undivided by fire walls, concealed spaces, etc.), and ascertain how they may be reasonably remedied, and how such improvements will reduce your insurance rate.

3. Protection: The best located and constructed property in the world without adequate fire alarm and extinguishing facilities on the average ultimately suffers undue fire waste, either in buildings or contents constantly. Study the deficiencies of your property in this respect as items in your insurance survey and rate, and better them (by installing metal waste and ash cans, fire buckets, chemical extinguishers, automatic sprinkler or standpipe, etc.), and you may find the investment highly profitable in the reduced hazard and rate.

4. Occupancy: Every business has inherent in it certain dangerous fire hazard characteristics. Study the nature of your business and properly care for and isolate materials or processes which may unduly occasion or accelerate fires. Such action properly taken should certainly reflect itself in a reduced insurance rate.

5. Virtually all property must be heated, lighted and ventilated these days, and all this equipment, in addition to special apparatus required by almost every business, has fire hazard. Study the character of your equipment thoroughly before purchasing, and better that which you now have—all of which should reflect reduction in your insurance rate.

6. Management: Keep your property clean. Half of all American fire waste comes from careless accumulation of dirt and rubbish and disorder. Teach your people clean-

liness and order and organize them to detect and extinguish fire and how to call the public fire department quickly when necessity requires.

Each one of you can apply in your factory, warehouse or home the above correctives, which constitute the essentials of fire prevention. You can also join any other good movements in community action to carry out the above program and to study and get prepared and enforced reasonable legal regulations whereby such correctives may be demanded in the law, and finally can back up your public officials in seeing that they are applied. Insurance will be reduced and your community cost in time will become lower in life, health and property loss.

* * *

The National Fire Protection Association, 87 Milk street, Boston, Mass., is endeavoring to form local chapters to accomplish the above aims. The project is a most laudable one and should meet with hearty response from everyone. At the present time, the per capita fire loss in the United States is next to the highest in the world, being exceeded only by Canada, while in most other countries the loss is kept down to a small fraction of what we look upon with complaisance. The fact that "something can be done" is recognized by everyone who gives any thought to the subject, and that "something must be done" will apparently soon be followed by concerted action, which will bring favorable results.

* * *

The "National Builder," in the current number, has an instructive little chapter on "The Bonding Companies:"

"A class whose names seldom appear in well regulated jobs is the bonding or surety company. They are, however, a necessity on practically every job and as a part of every contract. The owner is, at the start as at the finish, the one whose interests must be respected, as it is to him that all parties look for payment. In case of failure of the contractor to complete his work, through any of the many causes which may arise, the owner would be left with an uncompleted structure on his grounds, possibly in a hazardous condition, with quantities of material specially fabricated for it, but not put in place.

"At such times the surety company must, in ordinary cases, complete the unfinished work for the contractor, as well as assume certain other liabilities in connection with the work. The owner has certain obligations in the matter, too, and a more general understanding of the entire subject will do much good. A little publicity in this line is strongly to be recommended."

* * *

A question which has invariably cropped up in every discussion of the quantity survey idea, namely, "Who Pays the Quantity Surveyor?" has at last been answered. Writ-

ing in "Construction News," Mr. Ernest McCullough observes:

"The owner pays for the lists of quantities. The first step is for the architect to decline to accept bids from contractors who have not lists of quantities prepared by some certified quantity surveyor. Thus the architect is saved considerable expense for blue printing and by having one competent person go carefully over the plans and details for the quantities before bids are called for, is apt to discover small errors which under the present method are concealed by the individual estimators, who hope thereby to run in a bill for "extras" later in the game. The quantity surveyor generally prepares the specifications for the work, thereby relieving architects of a disagreeable duty.

The lists furnished by the selected quantity surveyor are given to all the bidders whom the architect has selected, a copy being filed in the vault of the architect and there kept until the contract is completed. The contractors pay nothing for these lists, but each one adds 2½ per cent. to his bid to cover the cost of the list in case he gets the contract. By this way of bidding the successful bidder pays for the work of the quantity surveyor and as he added the item in his lump sum bid, it finally comes on the owner, as all estimating expenses must.

When the quantity surveyor system is firmly established in the United States it will cut the estimating cost for contractors out altogether. It will reduce the cost of blue printing and specification writing in architects' offices and go farther toward wiping out the "extras" bills than any one thing yet proposed. Under the present method every contractor employs a force of estimators. This means considerable expense each week, and as a number of men must look over plans sent out by architects, few estimators get all the time they really require for the making of a correct estimate. There is thus a tremendous economic loss. On one piece of concrete work the writer estimated for a certain firm, two other firms sent him the same plans a day or two later. These firms were so crowded that their own estimators had no time to do the work. The writer charged the full rate to each man, so he really was paid three times for the job. Under the present method of working it was not wise for him to let any one of the firms know that he had given the quantities previously to other firms. Thus each firm got exactly the same quantities and if there was any difference in the bids it would be due to the unit prices assumed by the bidders. The cost for estimating for each firm was \$50, making a total cost of \$150 on one item only in the building. It is to be assumed that several trades did the same thing, so the aggregate cost for the estimating on the building was not far from \$1,000; all paid by the bidders.

Under the quantity surveying method for doing business the architect would have sent the plans to a quantity surveyor to take off the quantities for all the trades and also prepare the specifications. The total cost would have been less than \$200, and any contractor

wishing to bid could have secured a list of quantities for his own work, free of charge. General contractors would have received a complete list of quantities free of charge. The successful contractor would pay it for the owner, who would finally pay in the weekly or monthly estimates given to the contractor. When this especial feature of the quantity surveying method of estimating becomes generally known there should be a good chance for it to become firmly established in the United States.

* * *

Some interesting particulars have just come to hand regarding a home of porcelain which can be erected in a few hours with a screw driver and wrench. It is the plan of W. H. Turner, of England, who calls himself "the pioneer of porcelain" and furnishes the following details:

"In the construction of the porcelain house there is a complete absence of all absorbent materials, such as brick and mortar, plaster, whitewash, concrete, woodwork and paper. The complete porcelain house is constructed as follows: Framework, preferable of light, rust-proof metal. In this framework are fitted the huge porcelain panels, half an inch thick, 6 feet long and 3 feet wide, weighing 5 pounds to the superficial foot, decorated and glazed on both sides to resist wind, storm and weather, with steam-tight joints, made of copper-coated asbestos tape.

"Porcelain is non-absorbent, insect and germ proof, fireproof and washable, and it makes possible for all a perfectly hygienic home. As for warmth—an inch-thick wall of pure porcelain glazed on both sides is better able to keep out cold than an eighteen-inch brick wall. With bricks and mortar it takes months to erect a house of, say, five rooms; a porcelain house of the same size can be put up in a few hours."

NATIONAL ASSOCIATION COMMITTEES.

President Paul F. Brandstedt has appointed the following committees of the National Association of Sheet Metal Contractors:

Warm Air Furnace—John H. Hussie, chairman, 2407 Cuming street, Omaha, Neb.; F. J. Hoersting, Dayton, Ohio; Arthur J. McManus, Hartford, Conn.; W. R. Taylor, Philadelphia, Pa., and W. E. Lamneck, Columbus, Ohio.

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MOST EXPENSIVE ADVERTISING.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

An advertisement should stick out like a sore thumb without being so sensitive.—
"Novelty News."

FASTER SYSTEM

MAXIMUM EFFICIENCY AT MINIMUM COST

ROOFING AND WATER PROOFING

SEND FOR BOOKLET

BENJAMIN FOSTER COMPANY

22nd & SEDGLEY AVE.

PHILADELPHIA PENNSYLVANIA.

ELECTRICITY

WHAT CONSTITUTES A MODERN KITCHEN

should be provided for in every building you erect, for now-a-days it is hard to rent or sell a house, store or building unless it is wired for electric service.

We will be very glad to have you take advantage of our facilities for planning the lighting equipment of new buildings with due regard to the highest efficiency and greatest economy.



THE BUILDERS' GUIDE

is the only paper devoted to building material and equipment interests in Philadelphia—the only architectural and construction organ in the State of Pennsylvania, and the most readable and progressive trade paper of its class this side of New York city.

If you are not a subscriber—subscribe now.

If you are a subscriber let us have the names of some of your friends who would be likely to be interested in a paper of this kind. Or send us in a club of five subscribers and we'll send you a premium well worth your time. Or—

For three subscriptions we will send you the paper free for one year.

We want 10,000 paid subscribers to the Builders' Guide before the close of 1914.

Won't you help your home trade paper to realize this ambition?

Lend a hand.

We have an attractive proposition to make to a few good subscription canvassers. The other kind need not apply.

BUILDERS' GUIDE,
Perry Building, Philadelphia.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try.

—Ex.

English and American Kitchens Contrasted—A Description of a Model Kitchen—Its Location, Finish and Equipment

There is a growing and altogether proper tendency to treat the kitchen as an integral part of the house, which was almost entirely absent in English and American houses of earlier times; in fact, until within the last twenty-five years very little notice was attached to it. A century ago it was regarded advisable to have the kitchen occupy a separate building somewhat removed from the main building, or located at a great distance from the dining or living rooms, oftentimes the whole length of the house. The principal reason for this was the primitive methods used in cooking and preparing foods, which were very objectionable at close range. Odors, noises and unsanitary appliances made the kitchen a place to be abhorred and to be kept as far away as possible. The present-day intelligent methods of dealing with the kitchen, particularly in America, have effected a complete transformation in this old idea, says J. F. Miller in an exchange. Our modern successful architect of the home attaches great importance to the planning of the kitchen, with its adjoining pantries, closets, storage rooms, etc.; and rightfully he should, as it goes more towards making for the convenience, help and comfort of the up-to-date household than possibly any other feature of the home.

The Modern English Kitchen.

The modern English kitchen, with its relation to the dining room, is interesting for comparison with those here in America, chiefly because the early English settlers constitute the original source from which we obtain our start in house building. The English kitchen's adjuncts practically comprise separate departments, such as the scullery, larder, wood, ashes, knives and boots, fuel, etc. This condition naturally requires the employment of considerable help, even in the smaller houses. On the other hand, the compactness so noticeable in American homes—requiring perhaps one-half the space, thus reducing the necessary help to a minimum and obtaining the maximum of convenience—has brought our kitchen to a standard, nearly, if not entirely, approaching the ideal. The American architect has based his idea for this compactness upon the same reasoning as is exercised in fitting up a convenient workshop, for truly a kitchen is the workshop of the house. Again, the peculiar custom of medieval times in placing the kitchen a considerable distance from the dining room still survives in the English homes, while in American homes a marked difference has long prevailed. The kitchen here is usually placed as near as possible to the dining room, only separated, if at all, by a china closet, pantry, or butler's room.

While there may be differences as to minor

details, the main features to be obtained in establishing a modern kitchen may be found in the various suggestions herein contained:

First. The kitchen should be roomy, but not excessively large. This applies to any size of house, as too large a kitchen is maintained at the expense of convenience and labor. An ideal size for a kitchen in a house measuring 25x50 containing living room, reception room, dining room and pantry on first floor, would be 12x15 feet.

Second. The general construction of the interior is of the utmost importance. The floor may be of hard Georgia pine, oiled, or covered with linoleum or oil cloth. As a covering, linoleum of a good inlaid pattern, while more expensive than oil cloth, proves the best and most economical in length of service. In a house where comfort is demanded regardless of cost, an interlocking rubber tiling is suggested. This flooring absolutely avoids noises and is also comfortable to the feet, as well as being of an exceptional durability. Other floors of an unmerited character are unglazed tile, brick, or one of the many patented compositions consisting chiefly of cement, which is also fireproof.

The Wainscoting.

The wainscoting, if adopted for the kitchen, can be of tile, enameled brick, or matched and V-pointed boards, varnished or painted; but in any event should be connected with the floor in a manner to avoid cracks for collecting dust or dirt. This is accomplished (when a wooden wainscot is used) by means of a plain rounded molding which is set in the right angle formed by the junction of the floor with the wainscot. While seldom seen, because of the expense, a kitchen completely tiled or bricked on walls, floor and ceiling is indeed a thing of beauty and necessarily an ideally sanitary room.

The doors, window frames, dressers and other necessary woodwork should be plain, made of medium wood and painted some light color or enameled white; or finished in the natural state with a transparent varnish.

The walls and ceiling, if not tiled or bricked, should be finished with a hard, smooth plaster and painted three or four coats of some light color—light yellow, green or blue making a very agreeable color to the eye. This manner of treatment permits the walls to be washed and kept free from dust and dirt, which latter is a disagreeable feature in the use of wall papers.

Third. The proper installation of the various furnishings of the kitchen is worthy of much thought and consideration. Of all these, nothing is of more vital importance nor appeals more strongly to the household than the range.

The size of the range is largely governed by the size of the house or the number of persons it is intended to serve. However, it is advisable to have a range not less than three feet square for a seven or eight-room house. It should be of a thoroughly modern style, with a hood over it, either built in or of sheet iron, an excellent provision for drawing away the steam and fumes of cooking. And, by all means, the range should be placed so that direct daylight falls upon it. Most present-day houses also have either gas or electric ranges installed in them, and these should be near the coal range so as to confine all cooking to one part of the kitchen, and further, especially in winter, when large gatherings are entertained, they furnish a combined service. Some large establishments, in addition to the range, are especially equipped with "warmers."

Position of Sink.

The sink, being so closely allied in its usefulness to the range, should be placed near the latter and under, between or near windows, but never where the person using it would have his back to the light. It may be of galvanized iron, copper, soapstone or enameled porcelain, and provided with an ample draining board; two being much preferred. If there is a special sink for vegetables required, it should be immediately joining draining board to insure compactness and convenience as well as economy in plumbing. The draining board may be of hardwood or of wood covered with copper or zinc. The best are made of enamelware similar to the sinks. Draining boards of copper or zinc should be given only a slight slope to prevent the possibility of dishes slipping therefrom.

The refrigerator should be built in or placed against an outside wall, in order that the ice can be put in easily from without through either a small opening or window. If it can be avoided, the refrigerator should not be placed in the kitchen, but rather in the entry, pantry or enclosed porch.

The kitchen of the small house, which sometimes has no communicating pantry, should have built therein dressers of such proportions as will accommodate all the necessary dishes, pots, vessels, bins for flour, sugar, etc., cutlery, and other things essential for obtaining the best results under the circumstances. A dresser of commodious size is always a blessing. The top portion, of plain shelves, should be enclosed either with doors or sliding glass fronts; the lower portion, first lined with zinc and enclosed with solid wooden doors so constructed as to fit nearly if not air-tight. If an exclusive pot closet is desired, it should be handy to the range and be under cover for sanitary reasons.

Substitutes for a Table.

Frequently in a small kitchen a counter or drop leaves against the wall are substituted for a table, but in most kitchens a good-sized substantial table, preferable in the center of the room, is found indispensable. The table should have a smooth top that can be easily kept clean.

The service part of the house, of which the

kitchen is the central room, should fit together just as parts of a machine and form a unit in themselves. The pantries, storerooms, etc., should be placed so as to afford easy access one to the other.

In a house which has two or more servants, a dining room or alcove should be provided for their use. This may be a part of the kitchen or immediately adjoining and merely large enough to comfortably seat the servants around a table.

The cook's pantry should contain cupboards in which are all the necessary paraphernalia for preparing pastries, puddings, etc., such as bins, bake-boards, crockery, pans and supplies, and should be lighted by at least one window.

The Butler's Pantry.

The butler's pantry, or china closet, as it is often called—generally located and affording direct communication between the kitchen and dining room—is essentially a serving room, and should contain a sink with draining boards, cupboards and shelves to accommodate the fine china, glassware and other requisites for the table. With such a plan the door between the pantry and kitchen may be either sliding or double swinging, but between the pantry and the dining room, a noiseless double-swinging door. A slide, with small shelves or counters on either side, between the kitchen and pantry, for the passing of food and dishes, saves time and steps. It is well to have the communication rather indirect through the pantry to prevent in a measure the passage of odors or a direct view of the kitchen by those entering the dining room or seated at the table. This can be partly accomplished by not having the communicating doors directly opposite each other. The outside entrance to the kitchen should be so placed as to facilitate the delivery of provisions, preferably through an entry or an enclosed porch.

The laundry in many houses is combined with the kitchen or immediately adjoining, in which latter case it often serves as an entry and a place to store certain articles, such as brooms, buckets, and possibly the refrigerator. The very best plan is to have the laundry in the basement, with separate outside stairs. In such a case, a chute for sending soiled linen, etc., should run from the kitchen or pantry to the laundry.

Light and Ventilation.

The kitchen should, above all, be well ventilated and have plenty of daylight. The necessary fumes and heat arising from the cooking should be taken care of in such a way that none of it is carried to the dining room or to other parts of the house. This can partly be accomplished by the hood over the range, but plenty of fresh air is required. Generally in country homes the living rooms are given southern exposure, so the kitchen usually faces the north. The best location is either the northern or eastern exposure, as the cooling breezes in the summer generally come from that direction, especially in this part of the country, and combined with the morning sun, make the kitchen cheerful and cool. If possible, there should be exposure

on at least two sides, opposite, affording cross ventilation as well as an abundance of light. All windows should be well fitted with screens in summer to keep out flies and other insects attracted by the odors of cooking.

The best artificial lighting is obtained by a reflector in the center of the kitchen.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

SOME MORE ADVERTISING "DON'T'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye—"Onlooker."

Don't expect outsiders to give you a big rating on a one-inch space.

DO YOU LABEL YOUR WORK?

There is nothing more dignified or elegant than our large Weatherproof Fiber Card-board Signs. More serviceable than iron, wood or cloth. Packed in a box—printed—ready for displaying.

2 x 3-Ft. SIGNS 12 CENTS EACH

\$12.00 per 100. Check with the order. Other sizes 1½ x 2 ft. to 3 x 4 ft. proportionate prices. Send for an illustrated folder.

Independent Printing Companies of U. S.
McLachlen Bank Building, Washington, D. C.

PAINTING ON METALS

It is best to paint sheet steel ceilings with a gloss finish, for the reason that they look better with such a finish, and distribute the light better, although some do not hold this view, arguing that the gloss does not distribute the light evenly over the room. The manufacturers of such ceilings, however, prepare the sheets for such a finish, that is, for the glaze effect. After the sheets are stamped they are dipped in a thin liquid composed of a little zinc white to varnish thinned down with benzine. Not enough zinc white is added to make the finish opaque, though this is hardly material since the finish is applied by the painter, who would much prefer a different prime coat, one quite dead or flat. A coat or two on this will make a finish. If the sheet steel has not been primed or coated at the factory then it is for the painter to cleanse it of grease and dirt, with benzine, or with some alkaline solution. When dry there should be a coat of raw or boiled oil given, adding a little drier to the raw oil. While the makers of steel ceilings who prime the sheets use a primer with a pigment base, zinc as a rule, yet it is still true that the best primer is the simple pure oil, raw or boiled. Of the two pigments, zinc, if any base is to be used, is better than white lead, which will cause rusting. After priming with the oil and after it has become dry, any desired paint may be applied, though usually as stated, a gloss paint is given preference, though many prefer a soft, rather flattish effect.

Repainting Iron or Steel Work.

Select dry weather for this work, as freezing or wet weather is very bad. Free the surface from all scale and dirt, rust, etc., a wire brush being a very useful tool for the purpose. If any rust, etc., is allowed to remain under the new coat of paint you may be sure that it will show up later on. If the work is in fairly good condition, the bad places may be scraped and touched up with paint, matching the old paint as well as possible, and when dry, giving the whole surface a coat of paint, or in some cases just a coating of raw or boiled oil will do, as in many cases the oil is the only thing that has left the paint. This plan works equally well in many cases of woodwork, on houses, etc. Often a coat or even two coats of paint are applied when all that is really necessary is a coat of oil with a possible preliminary touching up

with paint. When painting over old painted metal work a paint containing some turpentine is well, as this fluid penetrates well, getting the paint down into any possible pores of the metal, for, of course, it is necessary that the new paint adhere well with the old.

Painting Galvanized Iron.

It must now be pretty well understood that galvanized iron should not be painted until it has stood to the weather for a year or so, or before it has been treated with a liquid to cut the so-called grease or galvanizing. In many instances new galvanized work looks well enough without paint, and in such cases it is a waste of time and money to apply paint to it. But where the finish demands the painting of the galvanized work it may be prepared with this formula: Take two ounces each of copper chloride, copper nitrate and sal ammoniac, all to be dissolved in one gallon of soft water, preferably. Then add two ounces of muriatic acid. Mix in a wooden vessel, and apply with a broad bristle brush, one coat. When dry it may be painted. No paint or varnish will scale from this surface. A gallon of this wash will coat about 25 or 30 squares of 100 feet each. It is inexpensive and easily made and applied. At first it is black, but this turns gradually to a grayish color. Copper acetate will do the work just as well as the other mixtures, six ounces to the gallon of water. A film of black copper oxide is deposited on the surface, and to this a paint will readily adhere. Copper acetate is simply an acid in which copper has been soaked. The government specifies for the purpose simply strong vinegar, while some master painters advise and use strong ammonia water, allowing it to dry on, not removing it but painting over it. Some railroads cleanse the surface with benzine, then apply a coat of varnish, this seeming to give good results. They use coach finishing varnish for this purpose. Then any approved paint may be applied, though some of the foremen painters add some varnish to the paint, which would seem to be a good plan. They add one pint of the varnish to the gallon of the paint. But I had better not extend these instances of painting galvanized iron on the new, without the copper wash or ageing, for some of the painters say this latter is all wrong, though we know it is not, and many of them declare they make ochre paint adhere to the new galvanizing; you

may depend upon the copper wash treatment, for it is sure and not expensive.

Painting Galvanized Roofing.

After the roof has stood to the weather for a year it may safely be painted. It has been found by careful observation that the best adhering and wearing paints for such roofing are red lead, burnt umber, burnt sienna, Indian red, Prussian blue, lampblack, and graphite, the poorest adhering paints being white zinc, lithoplane, clay, etc. For first coat red lead is always good. As for the appearance, where a roof may be visible, white makes a cool roof, but few would care for it. Green and red are pleasing colors. Mixtures of the desirable pigments may be employed to produce pleasing colors. Red lead tones with lampblack does well. White reflects heat, keeping the roof cool, while dark colors absorb heat, making a warm roof, and injuring the paint, too. Usually one coat of paint is sufficient on any metal roof, and too much paint results in peeling, etc.

BLUE-PRINT INDUSTRY IS AFFECTED BY WAR.

Potash, so necessary in many manufacturing processes, is produced in Prussia, and the war has shut down on imports of this substance into this country. As a result, a great number of industries are affected. The annual importations of potash from Germany and Austria amounted to \$15,000,000.

It is used in making fertilizer, glass and soap making, dyeing and bleaching, and also in the manufacture of explosives. All the potash and iron salts used in the process of blue-printing come from Germany. As fresh supplies are not likely to reach the United States until the war is over, the manufacture of blue-print paper will be seriously interfered with, and may eventually be stopped.

Philadelphia is the center for the manufacture of blue-print paper in this country. While most of the makers have fairly large stocks of the necessary chemicals, much concern is being felt over the future. If a shut-down of the factories come, every railroad, machine shop, engineer and architect will be seriously inconvenienced by the shortage of blue-print paper.

DO IT NOW.

All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

When the game is advertising, specializing pays. You couldn't advertise hats in a brick magazine any more than you would advertise corsets in a tobacco trade journal. Selecting your medium depends on the class you aim to reach. If the class is architects or builders, your medium is "The Guide."

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co.,
910 Filbert st., Phila.

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co.,
Penna. Bldg., Phila.
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co.,
1713 Sansom st., Phila.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Fireproofing.

Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller,
46-48-50 N. 2nd st., Phila.
J. Reynolds & Son, 1615 Filbert st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hardwood Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

The Fairbanks Co., 7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Painting.

R. J. Carrick, 2016 Ranstead St., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Parquetry Floors.

Heaton & Wood, 1802 Chestnut st., Phila.
Andrew Pinkerton, 3034 W. York st., Phila.
J. C. Moore Co., 35 S. 17th st., Phila.

Pipe Fittings and Valves.

The Fairbanks Co., 7th and Arch sts.

Plumbing Fixtures.

Camden Pottery Co., Camden, N. J.

Preservatives (Wood and Concrete).

F. E. Sagendorph, 437 Chestnut st., Phila.

Radiators.

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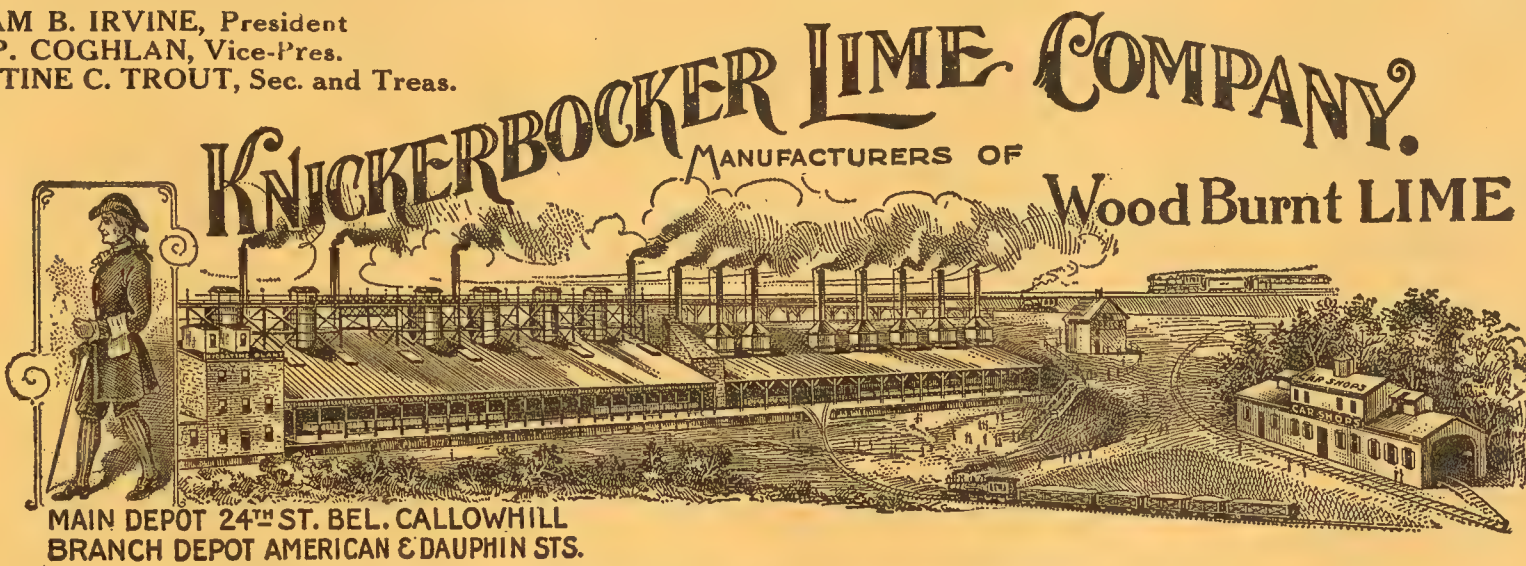
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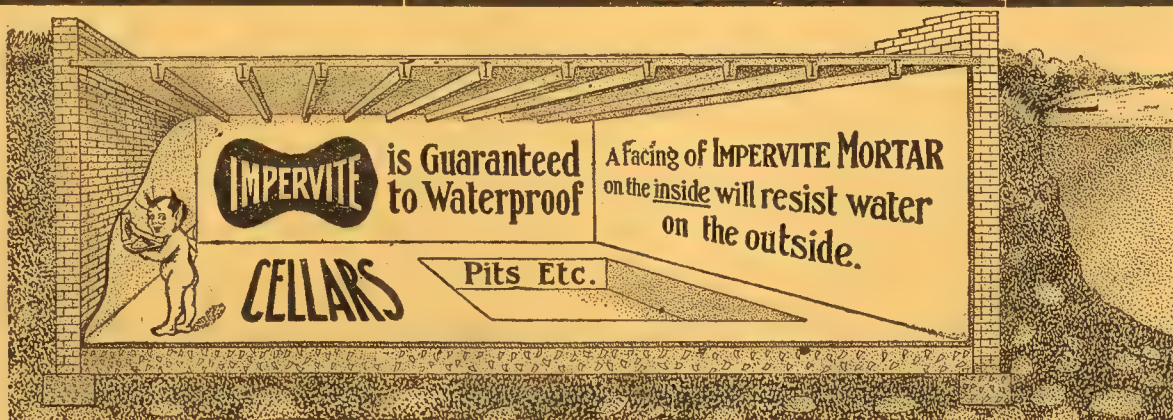
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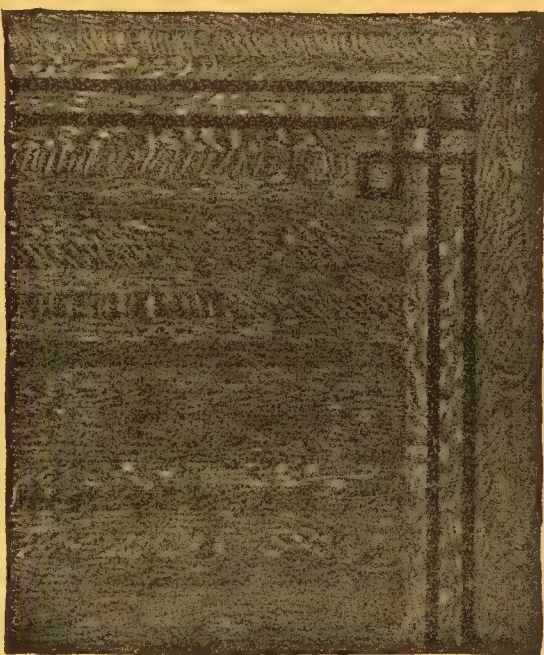
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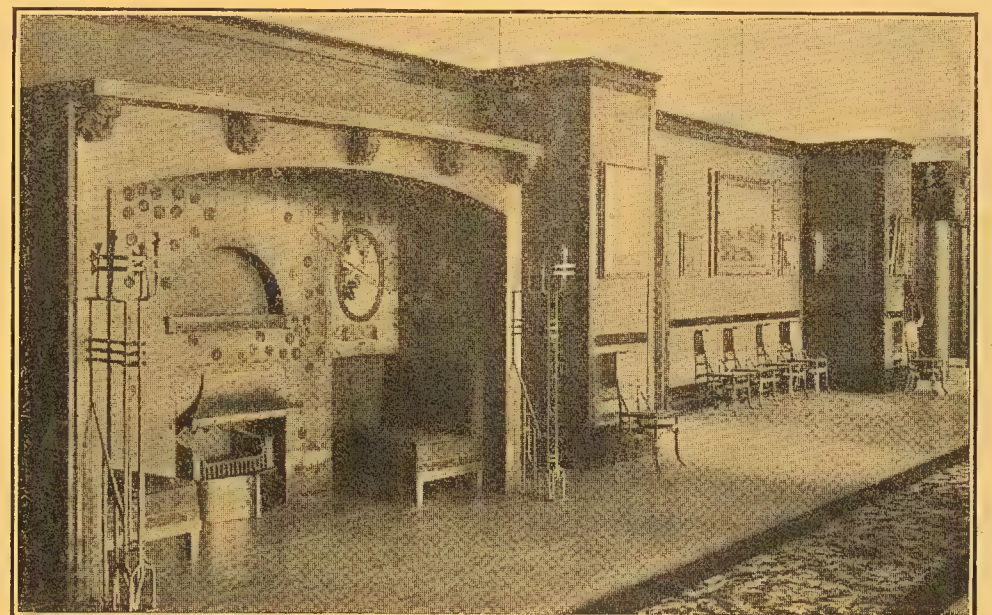
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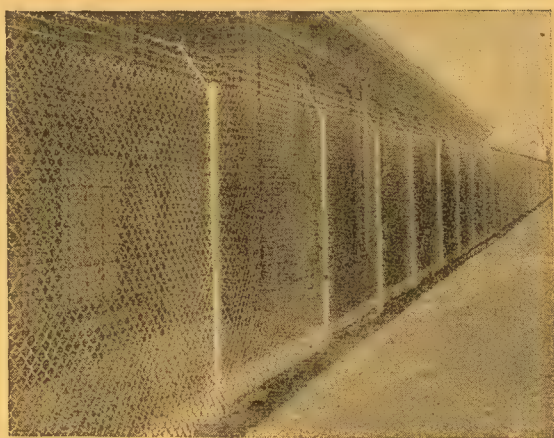
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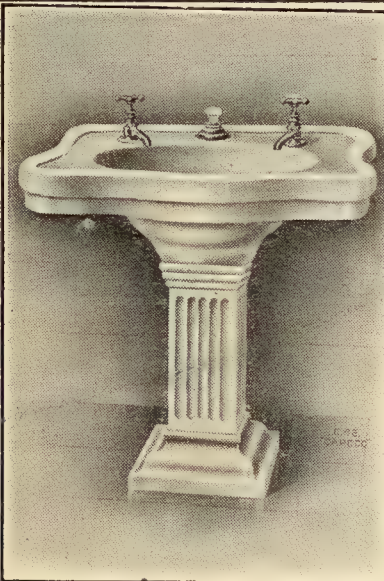


Plate 101 D
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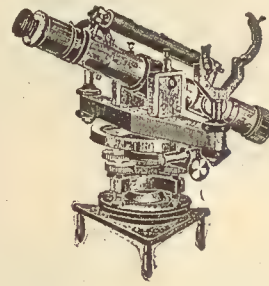
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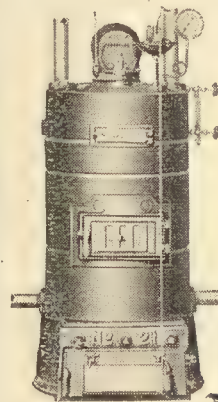


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OLDEST AND ONLY ARCHITECTURAL PUBLICATION IN PENNSYLVANIA

Vol. XXIX., No. 37.

PHILADELPHIA, WEDNESDAY, SEPTEMBER 16, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store and Office Building (alt. and add.), 29 South Sixteenth street, Philadelphia. \$20,000. Architect Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Louis Levi, Real Estate Trust Building, Philadelphia. Brick, 3 stories, 18x99 feet, slag roof, electric lighting, parquet floors, metal lath, damp-proofing (heating reserved). Architect taking bids due September 16th. Smith-Hardican Co., 1606 Cherry st.; Stacy Reeves & Sons, 2011 Market st.; Lam Building Co., 1001 Wood st.; Freund-Seidenbach Co., Bulletin Building; A. R. Raff, 1635 Thompson st.; Fidelity Construction Co., Heed Building; E. J. Kreitzberg, 1045 Arch st.; John Morrow Construction Co., 308 South Twelfth st., all of Philadelphia, are figuring.

Convent Building, Oak Lane, Philadelphia. Architects, Maginnis & Welch, Boston, Mass. Owner, Carmelite Convent, Oak Lane, Philadelphia. Stone and terra cotta, 3 stories, 60x15b feet, slate roof (heat and light reserved), metal lath, waterproofing and damp-proofing, metal sash and frames. Architects taking bids due September 16th. William R. Dougherty, 1610 Sansom st.; Melody & Keating, Bailey Building; Thomas Reilly, 1616 Thompson st.; John McShain, 631 North Seventeenth street, all of Philadelphia, are figuring.

ACCIDENT WARD (add.), Broad and Wolf sts., Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Methodist Episcopal Hospital, Broad and Wolf sts., Philadelphia. Brick, 2 stories, tile roof, steam heating, electric lighting, metal lath, metal sash and frames. Architects have received bids.

Store and Residence, Limekiln Pike and Chelton ave., Philadelphia. Architects, private plans. Owner, J. H. Treffinger, Old York road and City Line, Philadelphia. Brick, 2 stories, 17x40 feet, slag roof, steam heating, electric lighting. Owner taking bids due September 16th. W. John Stevens, Wyncote, Pa., is figuring.

Building (add.), City Line and Germantown ave., Chestnut Hill. Architects, private plans. Owners, Sisters of St. Joseph, on premises. Stone and brick, 2 stories, 32x56 feet, slate roof, steam heating, electric lighting. Builder

John McShain, 631 North Seventeenth st., Philadelphia, is taking sub-bids.

Dye House (add.), Womrath st. and Torresdale ave., Philadelphia. Owner, Joseph Schmidt, care of C. E. Outterson, 4509 Frankford ave., Philadelphia. Brick, 2 stories, slag roof. Revised plans in progress.

Factory (add.), 228-236 Lombard street, Philadelphia. Architects, Anderson & Haupt, Drexel Building, Philadelphia. Owners, Lifter Ice Cream Co., 222 Lombard street, Philadelphia. Brick and concrete, 3 stories, 80x141 feet, slag roof, electric lighting. Architect taking sub-bids due September 18th. Monaghan & Losse, 214 South Twelfth street; Bailey-Lush Co., 201 North Broad street; Turner Concrete Steel Co., 1713 Sansom st., all of Philadelphia, are figuring.

Parish House, Germantown avenue and Greene street, Germantown. Architects, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Trinity Lutheran Church, care of W. Fdorek, 114 West Luray street, Philadelphia. Brick and plaster, 2½ stories, 60x90 feet, slate roof, hot water heating, electric lighting. Owner taking bids due September 16th. W. C. Wright, 22 Harvey street; Harry Brocklehurst, 512 West Norris street; A. Raymond Raff, 1635 Thompson street, all of Philadelphia, are figuring.

Sunday School Building, Pickin & Rector streets, Philadelphia. Architect, private plans. Owner, Talmage Reformed Church, care of George Krohs, Roxborough. Brick, 1 story, 52 & 56 feet, slag roof, steam heating, electric lighting. Owner ready for bids.

Warehouse, Twenty-second and Race sts., Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, H. Fryman, on premises. Brick, 1 story, 51x87 feet, wing 15x22 feet, slag roof, steam heating, electric lighting, waterproofing. Plans in progress.

Residence (alt. and add.), Twentieth and Green streets, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, George Abbott, Sr., Thirty-first and Chestnut streets. Brick, 4 stories, metal lath, consists of interior alteration and addition (heating and

lighting reserved). Architects taking bids due September 18th. F. B. Davis, 240 North Sixteenth street; C. Strode & Sons, 12 North Nineteenth street; Samuel Harting, 20 East Johnson street, Philadelphia, are figuring.

Milk Depot, 517 Cambridge street, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, A. Abramson, on premises. Brick, 2 stories, 24x33 feet, slag roof, steam heating, electric lighting. Plans in progress.

Store and Residence, Eleventh and Brown streets, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, A. Grabois, 1021 North Front street, Philadelphia. Brick, 3 stories, 21x55 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Residence and Stores (3), 3900 North Broad street, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, A. Grabels, 1021 North Front street, Philadelphia. Brick, 3 stories, 24x35 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Mill (add.), Tioga and D streets, Philadelphia. Architect, private plans. Owners, Brighton Worsted Co., on premises. Brick, 2 stories, 42x58 feet, slag roof. Owners taking bids. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

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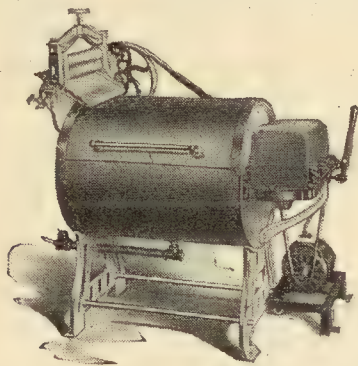
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

High School, Oxford and Wakefield sts., Frankford, \$508,900. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and stone, fireproof, 4 stories, 200x295 feet, slate roof (light and heat separate bids), waterproofing, enameled brick, metal frames and sash, metal lath. Contract awarded to E. F. Fonder, Land Title Building, Philadelphia.

High School (new wing), Broad and Green sts., Philadelphia. \$11,888. Architect, J. Horace Cook, Land Title Bldg., Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and Terra cotta, 1 story, 50x90 feet, composition roof, metal lath (heating and lighting separate bids). Contract awarded to Mitchell Bros., 2125 Race street, Phila.

Office (alt. and add.), Fifth and Chestnut sts., Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Drexel Building, Philadelphia. Consists of interior alteration and addition, marble work, tile work, steam heating, electric lighting, metal lath. Contract awarded to George & Borst, 277 South Eleventh st., Philadelphia.

Residence (alt. and add.), 2352 North Broad st., Philadelphia, \$2,000. Architect, C. E. Oelschlager, Harrison Building, Philadelphia.

Owner, Oscar Isenberg, 2124 Gratz st., Philadelphia. Stone and brick, 3 stories, slag roof, hot water heating, electric lighting, oak floors, metal lath. Contract awarded to I. T. Shoemaker, 1309 Walnut st., Philadelphia.

Store Building, 114 North Juniper st., Philadelphia. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owners, Benjamin Alexander, Hale Building, Philadelphia. Brick, 2 stories, 20x100 feet, slag roof, steam heating, electric lighting. Contract awarded to Kreitzburg, 1345 Arch st., Philadelphia.

Building, Thirty-first st. and Lehigh ave., Philadelphia. Architect, George F. Uber, Thirteenth st. and Fairmount ave., Philadelphia. Owner, Mt. Peace Cemetery, on premises. Brick, 1 story, 10x27 feet, slag roof, electric lighting. Contract awarded to H. E. Baton, Twelfth and Sansom sts., Philadelphia.

Garage, Willow Grove avenue and Germantown avenue, Philadelphia. Architect, S. A. Stoneback, 2301 North College avenue, Philadelphia. Owner, Mrs. A. R. Snyder, 7942 Germantown avenue, Philadelphia. Stone, 2 stories, 76x84 feet, slag roof, hot water heating, electric lighting, dampproofing, metal lath. Contract awarded to Thomas C. Trafford, 113 Sansom street, Philadelphia.

PENNSYLVANIA

Construction News

Fire House, La Mott, Pa., \$5,000. Architect, William T. Muldrew, 6926 Old York road, Philadelphia. Owner, La Mott Fire Co., No. 1, La Mott, Pa. Stone, 1 story, 60x28 feet, Chapman slate roof (heating and lighting reserved). Owner has received bids.

Store Building (alt. and add.), Chester, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Milton H. Bickley, Chester, Pa. Brick, 3 stories, copper roof, electric lighting, hardwood floors, metal

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concrete or any good foundation.

lath (heat reserved). Architects have received bids.

School, York, Pa., \$30,000. Architect, Edward Leber, York, Pa. Owner, Board of Education, David N. Crider, Secretary, York, Pa. Brick and terra cotta, 2 stories, 82x91 feet, slag roof, hollow tile and concrete fireproofing, wire lath, safety treads, composition floors, waterproofing (heating, plumbing and electric work separate bids). Owner has received bids.

Church and Parsonage, Leighton, Pa. \$50,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Zion Reformed Church, care of H. B. Kennel, Leighton, Pa. Brick, stone trimmings, 1 and 3 stories, 105x65 feet and 33x61 feet, slate roofs, steam heating, electric lighting. Architect is taking sub-bids.

Parochial School, Columbia, Pa. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owner, St. Stephen's R. C. Church, care of Rev. P. G. Brueggeman, Columbia, Pa. Stone and brick, 2 stories, 86x143 feet, slate and slag roof, metal lath (heating reserved). Architect taking bids due September 16th. (Note change.) The following are figuring: William R. Dougherty, 1610 Sansom st., Philadelphia; G. W. Paules, and L. S. Wright, both of Lancaster, Pa.; D. F. Warfel, Columbia, Pa.; J. L. Menough, York, Pa., and Stapf & Benfer, Harrisburg, Pa.

Church, Scranton, Pa. Architects, Ballinger & Perrot, 1211 Arch st., Philadelphia. Owner, Holy Cross R. C. Church, care of Rev. W. P. O'Donnell, Scranton. Stone, 1 story, 47x120 feet, slate roof, steam heating, electric lighting. Plans completed. Owner will take bids.

Warehouse, Chester, Pa. Architects, Peuckert & Wunder, 310 Chestnut st., Philadelphia. Owner, name withheld. Brick, 2 stories, slag roof. Architects taking approximate bids.

Smith-Hardican Co., 1606 Cherry st., Philadelphia, is figuring (only bidder).

Residence, Elkins Park, Pa. Architect, W. A. Foster, Columbus, O. Owner, T. E. Karlson, Chestnut avenue, Oak Lane, Philadelphia. Stone and frame, 2½ stories, 30x40 feet, shingle roof, hot water heating, electric lighting. Owner taking bids. W. John Stevens, Wyncote, Pa., is figuring.

Residence and Garage (alt. and add.), Moylan, Pa. Architects, Price and McLanahan, 1418 Walnut street, Philadelphia. Owner, Morris B. Saul, Moylan, Pa. Brick and plaster, 2½ stories, tile roof, electric lighting. Plans about completed. Bids in about 10 days.

Residence, Haverford, Pa., \$100,000. Architect, H. Brooks Price, 105 West Fortieth street, New York City. Owner, Dr. Archibald G. Thomson, Stock Exchange Building, Philadelphia. Hollow tile and stucco, fireproof, 3 stories, 115x67 feet and 57x27 feet, tile and copper roof, vapor heating, electric lighting, enameled brick, metal lath, waterproofing, composition floors, concrete and hollow tile fireproofing, kalamoin doors, 12 bath rooms. Architect taking bids, due September 25th. The following are figuring: H. H. Burrell, 1204 Chancellor street; J. S. Cornell & Son, Land Title Building; J. E. & A. L. Pennock, Land Title Building; George & Borst, 277 South Eleventh street; Pomeroy Construction Co., 1609 Ranstead street; F. E. Wallace, 1210 Sansom street, all of Philadelphia.

Hospital Buildings (5), Hanover Township, Pa. Architect, private plans. Owner, Homeopathic Hospital for Insane, care of Dr. Henry I. Klopp, Allentown, Pa. Brick, 1, 2 and 3 stories, 42x28 feet, 36x84 feet, 36x70 feet, slate and asbestos roof, steam heating, electric lighting, metal lath. Owners taking bids, due September 16th. Metzger & Fisher, Denckla Building, Philadelphia, are figuring.

PENNSYLVANIA Contracts Awarded

High School (add.), Lansdowne, Pa. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2 stories, 120x68 feet, slate roof, steam heating, gas and electric lighting, metal lath, dampproofing and waterproofing. Lowest bid submitted by W. J. Elliott, Coatesville, Pa., \$42,264. Note: Contract not awarded).

Sunday School Building, Broomall, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Marple Presbyterian Church, Broomall, Pa. Stone, 1 story, 40x50 feet, shingle roof, steam heating, electric lighting. Contract awarded to E. O. Lobb, Llanerch, Pa.

Residence, Conshohocken, Pa., \$35,000. Architects, Brockie & Hastings, 1713 Sansom st., Philadelphia. Owner, H. Wood, Jr., 1016 Spruce st., Philadelphia. Stone, 2½ stories, 71x96 feet, slate roof, hot water heating, hardwood floors. Contract awarded to W. H. Eddleman & Sons, 453 Green lane, Roxborough, Philadelphia.

Residence, Drexel Hill, Pa., \$6,500. Architect, A. C. Behr, 416 Walnut street, Philadel-

phia. Owner, Nelson Kershaw, Clifton Heights, Pa. Stone and frame, 2½ stories, 35x55 feet, shingle roof, hot water heating, electric lighting, oak floors. Contract awarded to Davidson & Sons, Llanerch, Pa.

Residence, Jenkintown, Pa., \$7,500. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, S. R. Weaver, 1206 Chestnut street, Philadelphia. Frame and plaster, 2½ stories, 46x26 feet and 10x15 feet, shingle and canvass roof, warm air heating, gas and electric light, oak floors, expanded metal, tile work. Contract awarded to John F. Davies, Heed Building, Philadelphia.

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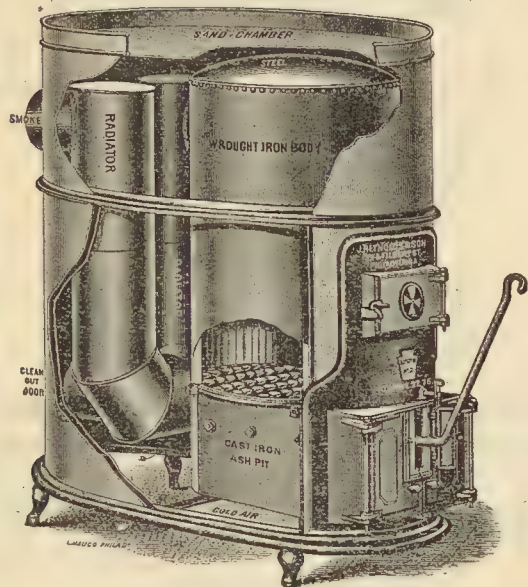
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NEW JERSEY

Construction News

Residence and Garage, Ocean City, N. J., \$10,000. Architect, E. M. Henderer, Ocean City, N. J., Owner, Edward F. Arthurs, Equitable Building, Baltimore, Md. Hollow tile and frame, 2½ stories, shingle roof, electric lighting (heating reserved). Architect has received bids.

Cow Barn, Glen Gardner, N. J., \$12,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey, Capitol Building, Trenton, N. J. Stone and frame, 2 stories, slate roof, electric lighting, concrete floor and wood floors. Owner ready for revised bids due October 5th.

Church, Trenton, N. J., \$30,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Cadwalader Heights M. E. Church, Trenton, N. J. Stone, 1 story, 68x90 feet, slate roof, steam heating, electric lighting. Owner taking sub-bids.

Bungalow, Atlantic City, N. J., \$10,000. Architects, Stout & Riebenack, Bartlett Building, Atlantic City, N. J. Owner, David Fitzsimmons, 112 South Connecticut ave., Atlantic City, N. J. Hollow tile, brick and stucco, 1½ stories, 36x68 feet, slate roof, hot water heating gas and electric lighting, tile work, hardwood floors. Plans in progress.

Factory, Bordentown, N. J. Architect, M. Haupt, Drexel Building, Philadelphia. Owners, L. Forman & Sons, 739 East Passyunk ave., Phila. Brick, 1 story, 75x250 feet, slag roof, electric lighting. Owners taking bids due September 15th. The following are figuring: Metzger & Fisher, Denckla Building; Charles Gilpin, Harrison Building; National Terra Cotta Co., Real Estate Trust Building, all of Philadelphia; W. A. Richman, Moorestown, N. J.; Hugh B. Miller, Edgewater Park, N. J.; J. S. Rogers Co., Moorestown, N. J.; H. B. Hollaway, Bordentown, N. J.

Employees' Cottages (2), Morris Plains, N. J., \$20,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Frame and stucco, 2 stories, 31x153 feet each, slag roof, steam

heating, electric lighting, metal lath. Plans in progress.

Twin Residence, Trenton, N. J., \$7,500. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, Joseph Lupo, Trenton, N. J. Brick, 2 stories, 26x50 feet, slag roof, heating undecided, gas lighting. Revised plans in progress.

Pavilions (2), Morris Plains, N. J., \$9,000. Architect, George S. Drew, Court House, Trenton, N. J. Owners, State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Brick, frame and glass, 1 story, 42x68 feet and 20x33 feet, slag roof, steam heating, electric lighting. Owners taking bids, due September 24th. The following are figuring: Metzger & Fisher, Denckla Building, Philadelphia; Berry-Goodwin Company, Drexel Building, Philadelphia; J. J. Lyons, Morristown, N. J.; Byrnes Building Company, Elizabeth, N. J.; Langan Engineering and Construction Company, Jersey City, N. J.

Cow Barn, Glen Gardner, N. J., \$12,000. Architect, George S. Drew, Court House, Trenton, N. J. Owners, State of New Jersey, Trenton, N. J. Stone and frame, 2 stories, slate roof, electric lighting, metal lath, waterproofing and dampproofing, concrete floors. Owners taking revised bids, due October 5th. Langan Engineering and Construction Co., Jersey City, N. J., and John Milnes Co., Port Richmond, New York City, are figuring.

Garage, Trenton, N. J., \$7,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, Samuel Levin, 167 South Broad street, Trenton, N. J. Brick, 1 story, 110x61 feet, slag roof, steam heating, electric lighting, concrete floors. Architects taking bids, due September 29th.

Store and Factory, Merchantville, N. J. Architect, E. A. Westover, Keith Building, Philadelphia. Owner, Arthur E. Craig, Merchantville, N. J. Brick, 1 story, 30x60 feet, slag roof, steam heating, electric lighting. Architect taking additional bids, due September 18th. Stackhouse & Smith, 3826 Hamilton street, Philadelphia, are figuring.

NEW JERSEY

Contracts Awarded

School, Chesterfield, N. J., \$5,000. Architect, Clyde S. Adams, 1509 Arch st., Philadelphia. Owner, School Board, care of Miss Mary Braislin, Crosswicks, N. J. Brick, 1 story, 58x40 feet and 23x40 feet, slate roof,

hot air heating, metal lath, safety treads, slate blackboards. Contract awarded to A. L. Mitchell, Bordentown, N. J.

Freight House, Third and Mechanic sts., Camden, N. J. Architect, W. Hunter, Twelfth

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1927 Montgomery Avenue
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and Market sts., Philadelphia. Owners, Philadelphia & Reading Railway Co., Twelfth and Market sts., Philadelphia. Brick, 2 stories, 40x180 feet, slag roof, hot water heating, electric lighting, waterproofing. Contract awarded to Daniel S. Bader, 1345 Arch st., Philadelphia.

Infirmary, Glen Gardner, N. J., \$20,000. Architect, George S. Drew, Court House, Trenton, N. J. Owners, State of New Jersey, Trenton, N. J. Hollow tile and stucco, 2½ stories, 125x65 feet, slate roof, steam heating, electric lighting. Contract awarded to Langan Engineering and Construction Company, Jersey City, N. J.

School, Edgebrook, N. J., \$9,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Board of Education of Hamilton Township, Mercer County, N. J. Brick, 1 story, 80x27 feet, slate

roof, slate blackboards, warm air heating, electric lighting. Contract awarded to J. W. Bowers, Yardville, N. J.

Residence, Trenton, N. J., \$7,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Ellwood Ivins, 19 Riverdrive avenue, Trenton, N. J. Brick, 2½ stories, 31x38 feet, slate roof, gas and electric lighting, tile work, hardwood floors (heating reserved). Contract awarded to William Ivins, Trenton, N. J.

Residence and Garage (alts.), Moorestown, N. J., \$3,000. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Joseph T. Sullivan, southeast corner Fourth and Walnut streets, Philadelphia. Frame, 2½ stories, shingle roof, electric lighting. Contract awarded to J. S. Rogers Company, Moorestown, N. J.

MARYLAND Construction News

Residence, Guilford, Md., \$10,000. Architect, E. L. Palmer, Roland Park, Md. Owner, John Moore, care of Architect. Stucco, 2½ stories, 25x42 feet, shingle roof, steam heating, electric lighting, hardwood floors. Architect taking bids. The following are figuring: Gus Stohr, 2801 Pennsylvania ave.; Roland Park Company, Roland Park, Md.; E. G. Turner, 15 East Fayette st.; Ray Chambers, Thirty-sixth and Roland ave., all of Baltimore, Md.

Residence (alt.), 1201 North Charles st., Baltimore, Md. Architect, Howard Sill, 11 East Pleasant st., Baltimore, Md. Owner, name withheld. Brick and stone, tin roof, electric lighting. Architect taking bids. The following are figuring: Willard E. Harn Co., 213 North Calvert st.; Conan Building Co., 106 West Madison st.; Gladfelter & Chambers, 2072 Woodberry ave., all of Baltimore, Md.

Residence (alt.) and Garage, 2220 North Charles st., Baltimore, Md. Architects, Elliott & Emmart, Union Trust Building, Baltimore, Md. Owner, Miss Helen Kelly, 2220 North Charles st., Baltimore, Md. Brick and frame, 2½ stories, slate roof, steam heating, electric lighting, tile work. Architects taking bids. The following are figuring: Gladfelter & Chambers, 2072 Woodberry ave.; G. Walter Torell, Eutaw and Dolphin sts.; Edward Pilert, 15 East Fayette st., all of Baltimore, Md.

Residences (10), Guilford and Barclay streets, Baltimore, Md., \$14,000. Architect, G. B. Lohmuller, 1735 North Broadway, Baltimore. Owners, Annex Construction Company, Twenty-seventh and Guilford avenue, Baltimore. Brick, 2 stories, 14x44 feet each, tin roofs, hot air heating, electric lighting. Owners are sub-letting all contracts.

Residence, Brooks lane and Eutaw Place,

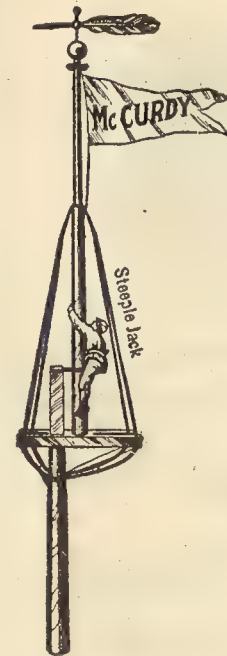
Baltimore, Md., \$5,000. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owners, Abell Building Company, Equitable Building, Baltimore, Md. Brick, 3 stories, 20x66 feet, slag roof, steam heating, electric lighting. Owners taking sub-bids.

Bungalow, West Arlington, Md., \$3,500. Architect, W. M. Geiske, Gunther Building, Baltimore, Md. Owner, Carl F. New, American Building, Baltimore, Md. Frame and stucco, 1½ stories, 34x54 feet, shingle roof, hot water heating, electric lighting. Plans in progress.

Residence (alt. and add.), Catonsville, Md. Architect, W. M. Geiske, Gunther Building, Baltimore, Md. Owner, L. W. Freund, Catonsville, Md. Frame, 2 stories, shingle roof, hot water heating, electric lighting. Plans in progress.

Residence (alt. and add.), University Parkway, Baltimore, \$4,000. Architect, E. H. Glidden, Maryland Casualty Building, Baltimore. Owner, Right Rev. J. Gardner Murray, 1110 Madison avenue, Baltimore. Brick, 2 stories, tin roof, steam heating, electric lighting. Architect taking bids. The following are figuring: John F. Kinkle, 29 South Linwood avenue; Samuel Spuat, 203 North Pine street; Gladfelter & Chambers, 2072 Woodberry avenue; H. H. Maclellan, 15 East Fayette street; C. L. Stockhausen, Gay and Water streets, all of Baltimore, Md.

Residences (24), Thirty-eighth and York road, Baltimore, Md., \$24,000. Architect, private plans. Owner, Abraham Silverstein, 1734 East Fayette street, Baltimore. Brick, 2 stories, 14x44 feet each, tin roof, hot air heating, electric lighting. Owner is sub-letting all contracts.



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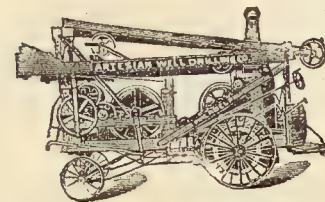
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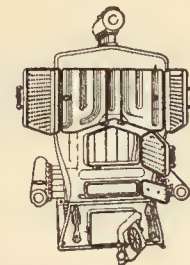


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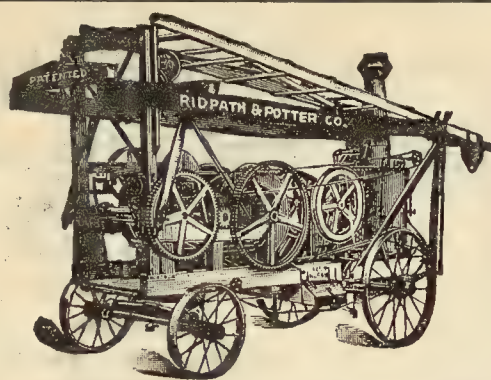
PHILADELPHIA - PA.

Maryland

Contracts Awarded

Residence, Ten Hills, Md., \$5,500. Architect, W. M. Geiske, Gunther Building Baltimore. Owner, John J. Heavey, care of Fidelity and deposit Co., Baltimore, Md. Frame and stucco, 2 stories, 30x35 feet, shingle roof, hot water heating, electric lighting. Contract awarded to John H. Gerwig, Catonsville, Md.

Residence, Catonsville, Md., \$5,500. Archi-



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tect, J. S. Wyatt, Catonsville, Md. Owner, Miss E. Messersmith, Catonsville, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to J. S. Wyatt, Catonsville, Md.

Residence, Frederick, Md., \$12,000. Architects, Smith & May, Law Building, Baltimore, Md. Owner, John S. Newman, Frederick, Md. Brick, 2½ stories, 57x32 feet, slate roof, steam heating, hardwood floors, tile work, electric lighting. Contract awarded to Lloyd C. Culler, Frederick, Md.

Miscellaneous Construction News

Post Office, Narragansett Pier, Mass. Architect, Oscar Wenderoth, Washington, D. C. Owner, United States Government, Washington, D. C. Brick and stone, fireproof, 2 stories, 65x72 feet, composition roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Owner taking bids due October 7th. J. E. & A. L. Pennock, Land Title Building, Philadelphia, is figuring.

Municipal Building, Roanoke, Va. Architects, Frye & Chesterman, Roanoke, Va. Owners, City of Roanoke, Va. Brick and stone, 3 stories and basement, 222x100 feet, slate and slag roof, composition floors, metal lath, metal sash, waterproofing (heating and lighting reserved). Owners received bids September 15th.

Miscellaneous Contracts Awarded

Transformer House, South Richmond, Va. Architect, private plans. Owner, Southern Railway Co., 1300 Pennsylvania ave., Washington, D. C. Brick and steel, 1 story, slag roof. Contract awarded to J. T. Wilson Co., Richmond, Va.

Car Shops, Memphis, Tenn. Architect, private plans. Owner, Southern Railway Co., 1300 Pennsylvania ave., Washington, D. C. Brick, 1 story, 42x120, 38x52, 40x366, 22x33 and 34x90 feet, slag and asbestos roofs, metal sash and frames, dampproofing (heating and electric work reserved). Contracts awarded as follows Shop buildings to Ragland-Baxter-Herford Co., Nashville, Tenn.; pump house and transformer, to R. F. Creson Co., Memphis, Tenn.

Car Shops, Richmond, Va. Architect, private plans. Owner, Southern Railway Co., 1300 Pennsylvania ave., Washington, D. C. Brick and steel, 1 and 2 stories, slag roof (heating and electric work reserved). Contract awarded to P. J. White & Son, Richmond, Va.

Permits for New Buildings

Philadelphia & Reading Railway Co. (O), Twelfth and Market sts. F. A. Havens Co. (C), 845 North Nineteenth st. Cost, \$4,000. Tunnel, 16x580 feet, brick, Germantown and Wayne aves.

W. Smith (O), 5263 Ridge ave. Cost, \$3,300. Two dwellings, brick, 2 stories, 16x44 feet, 3592 Dawson st.

W. M. Steppacker & Bro. (O), 146 North Thirteenth st. Irwin & Leighton (C), 126 North Twelfth st. Cost, \$7,000. Manufacturing building, brick, 2 stories, 23xva feet, 146 North Thirteenth st.

J. M. Menamin (O), D and Rah sts. Neweling Bros. (C), 121 Sylvania st. Cost, \$4,500. Two dwellings, brick, 3 stories, 16xa9 feet, D and Selly sts.

N. Fernano (O), Church and Adams sts. H. A. Leister (C), 1808 Harrison st. Cost, \$2,500. Dwelling, brick, 3 stories, 16x32 feet, Pillings and Adams sts.

Daniel Crawford, Jr. (O), 701 North Sixty-third st. Cost, \$38,000. Nineteen dwellings, brick, 2 stories, 15x39 feet. Cost, \$38,000. Nineteen dwellings, Fifty-fifth and Broomal sts.

Louis A. Bertsch (O), 6734 State road. J. Niblick (C), 6020 Torresdale ave. Cost, \$2,500. Dwelling, brick, 3 stories, 16x45 feet, Torresdale, Phila.

T. C. McCandless (O), 242 Summerville ave. Cost, \$2,600. Dwelling, brick, 2 stories, 15x40 feet, Seventh and Ansberry sts. Cost, \$35,000. Fourteen dwellings.

Stanley Lozewick (O), 2639 East Ontario st. P. J. McFarland (C), 3655 East Ontario st. Cost, \$2,550. Dwelling, stone, 2 stories, 16x42 feet, Ontario and Thompson sts,

Alterations and Additions

Dr. J. P. Melerman (O), 1225 South Broad st. Davis & Huston (C), 1500 Ellsworth st. Cost, \$1,400. Dwelling, 1225 South Broad st.

Oscar Eisenberg (O), 2352 North Broad st. I. T. Shoemaker (C), 1309 Walnut st. Cost, \$2,000. Residence, 2352 North Broad st.

Barrett Manufacturing Co. (O), Frankford, Phila. Cost, \$5,000. Tower, Margaret and Bermuda sts.

M. & W. Nixon Paper Co. (O), Manayunk, Phila. B. White Co. (C), Perry Building. Cost, \$2,000. Reservoir, Manayunk, Phila.

E. B. Kerber (O), 6102 Media st. William Mowbray (C), 1504 North Robertson st. Cost, \$700. Garage, 6102 Media ave.

Tioga Realty Co. (O), Seventeenth and Tioga sts. Carter Paving Co. (C), 641 North Eighteenth st. Cost, \$6,284. Theatre, Seventeenth and Atlantic sts.

I. Keisham (O), Fifty-second and Chestnut sts. Ayer & Carnean (C), 5131 Market st. Cost, \$1,100. Store and dwelling, 5225 Girard ave.

Barrett Manufacturing Co. (O). J. Kelly (C). Bulletin Building. Cost, \$2,550. Wall, Thirty-seventh st. and Gray's Ferry road.

F. N. Reiter (O), 3718 Fairmount ave. S. B. MacDowell & Sons (C), 1927 Montgomery ave. Cost, \$1,300. Dwelling, 3718 Fairmount ave.

M. J. Walters (O), 1709 Green st. J. J. Quigley (C), 1342 Ridge ave. Cost, \$2,000. Hospital, 1709 Green st.

J. S. Hermann (O), 4136 Lancaster ave. H. R. Hallowell (C), Fifty-ninth and Carpenter sts. Cost, \$6,000. Store, 4007 Lancaster ave.

Lehigh Valley R. R. Co. (O), 213 South Third st. E. F. Hoover & Sons (C), 1023 Cherry st. Cost, \$2,000. Restaurant, 116 Delaware ave.

T. Keniworthy & Bros. (O), 5608 Ridge ave. E. R. Clark Co. (C), East Walnut lane. Cost, \$4,000. Office Building, Walnut lane and Pechin st.

University of Pennsylvania (O), Thirty-sixth and Spruce sts. James G. Doak & Co. (C), Crozer Building. Cost, \$1,100. Museum. Fortieth and Irving sts.

Berg Bros. (O), Tenth and Market sts. Lam Building Co. (C), 1001 Wood st. Cost, \$2,200. Stone, Tenth and Market sts.

Berg Co. (O), Ontario st. and Delaware ave. Carter Paving Co. (C), 641 North Eighteenth st. Cost, \$6,728. Building, Ontario st. and Delaware ave.

Adams Express Co. (O), Twenty-second and Ludlow sts. Armstrong & Latta (C), Land Title Building. Cost, \$4,000. Garage, Twenty-second and Ludlow sts.

W. Wertsch (O), 3717 North Gratz st. G. M. Crowl (C), 22 North Vodges st. Cost, \$1,024. Laundry, 436 Race st.

W. R. Nickolson (O), Broad and Somerset sts. H. Brocklehurst (C), 512 West Norris st. Cost, \$2,900. Store and dwelling, Limekiln pike and Cheltenham ave.

W. Frizlin (O), 45 North Seventh st. F. I. Wintz (C), 1618 North Twenty-seventh st. Cost, \$1,235. Manufacturing building, 632 Race st.

Estate of W. P. Mellon (O), Bryn Mawr, Pa. G. C. Dougherty (C), 1725 Ludlow st. Cost, \$12,300. Office, 1709 Sansom st.

Rebman Real Estate Co. (O), Aramingo and Cumberland sts. George Kessler Construction Co. (C), Drexel Building. Cost, \$20,000. Warehouse, orick, 3 stories, 85x150 feet, Thirteenth and Hamilton sts.

C. Lakevitz (O), 2015 Orthodox st. C. Lakeweiz, 2015 Orthodox st. Cost, \$1,800. Store and dwelling, 2016 Orthodox st.

M. Rosenbaum (O), 605 South Third st. J. M. Daniels (C), 252 South Juniper st. Cost, \$2,805. Manufacturing building, Meadox and Jackson sts.

H. H. Serp Manufacturing Co. (O), 1718 Randolph st. Baden-Hausen Co. (C), 1429 Chestnut st. Cost, \$950. Factory, 1718 Randolph st.

A. Moell (O), Eighth st. and Lycoming ave. C. M. Brandt (C), 1037 W. Tioga st. Cost, \$788. Stable, Seventh and Cayuga sts.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

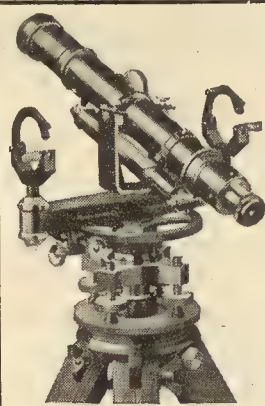
Treasury Department, Office of the Supervising Architect, Washington, D. C., September 12, 1914.—Sealed proposals will be received in this office until 3 o'clock P. M., October 14, 1914, and then opened, for the construction and installation of new dock piers and ferry rack, bridge, etc., at the United States Barge Office, New York City. Drawings and specifications may be obtained at the Office of the Chief Engineer and Superintendent, etc., United States Public Buildings, Room 727, Custom House Building, New York City, or at this office, at the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

COMPARATIVE COSTS OF FACTORY CONSTRUCTION.

It is exceedingly difficult to lay down an absolute definite rule as to the comparative economy of the methods of construction generally adopted for factory buildings. The accompanying figures relate to a case where competitive prices were obtained for a building of fair size and quite suitable to afford a basis for reliable comparison, says "Ferro-Concrete." Alternative schemes were prepared and competitive prices obtained. Expressed in percentages, the results were as shown in the table.

	Per Cent.
1. Steel frame building with brick walls, corrugated iron roof, wood joists and boards on steel bearers to galleries, and patent roof glazing.....	100
2. Reinforcing concrete building with roof at last	92
3. Reinforced concrete building with concrete roof, part with lantern lights, and with brick panel walls.	89
4. Steel frame building, as No. 1, but with corrugated iron walls.....	89
5. Reinforced concrete building (no other structural material used).....	88

It cannot be expected that the comparisons here given will apply to all factory buildings. The question of relative cost is affected a good deal by the number of stories and the size of the structure. In the case of small buildings, reinforced concrete may prove more costly than other materials, although far superior in strength, durability and freedom from maintenance charges.



"Sterling" Convertible Level

The compact reinforced construction of the 1914 Model adapts it particularly to the needs of the Builder and Architect. No special skill or training is required in its use! It possesses features of advantage worth knowing about! Write today for details of Free Trial Offer, price, terms, etc., of the instrument you will ultimately select.

We Repair and Adjust all makes of instruments, tape lines, etc., and take old transits and levels in exchange.

WARREN-KNIGHT COMPANY

136 N. TWELFTH STREET

--

PHILADELPHIA, U. S. A.

VALUE OF GYPSUM OUTPUT IN 1913.

Gypsum, the rock that makes plaster of Paris, was mined in the United States in 1913 to the extent of 2,599,508 short tons, an increase of 98,751 tons over the production of 1912, according to R. W. Stone, of the United States Geological Survey. The total value of gypsum and gypsum products produced in 1913 was \$6,774,822, compared with \$6,563,908 in 1912, an increase of \$210,914. Gypsum sold crude without calcining and used principally as an ingredient in Portland cement and paint and as land plaster, amounted to 463,136 short tons, valued at \$697,066, which is a good increase over the business of 1912. About 85 per cent. of the gypsum sold crude in 1913 was used for Portland cement at an average value of \$1.49 a ton. The quantity sold for this purpose is steadily increasing. The quantity of gypsum sold crude for land plaster has remained nearly stationary for four years, but the average price dropped in 1913 from \$2.02 to \$1.75.

There was an increase of 42,175 tons in the amount of calcined gypsum sold in 1913, yet the average price per ton was \$3.43—the same as in 1912. A total of 1,680,157 short tons was calcined for wall plaster, Keenes cement, plaster of Paris, etc. About 1,250,000 tons of this amount was used for mixed wall plaster, the so-called cement plaster and hard wall plasters of the building trade.

The business man who grudges a commission to an advertising agent who thinks "he can do it himself" is usually about as intelligent as he would be if he grudged the commission of the architect and decided to build his store for himself.

He would save the commission of the architect, but ruin the store.

This is the age in which one man DOES ONE THING. You can run your BUSINESS. Find a man who can RUN YOUR ADVERTISING.

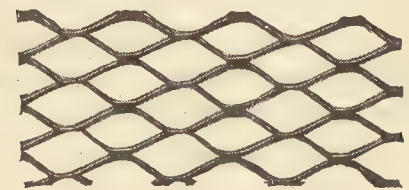
SURE.

Stick to your work, forget the mob,
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.

Good fortune often chooses the most unlikely of messengers to herald its coming.

You can't hire loyalty; you have got to deserve it.—Ex.

"BILCO" Expanded Metal Lath



"Bilco" Diamond Mesh

is the highest grade metal lath. Particularly suited for lathing domes, cornices, ceilings, etc.

Made in sheets 24x96 in., 17-9 sq. yds., in following gauges, 22, 24, 25, 26, 27.

Packed 15 sheets (26 2/3 sq. yds.) to the bundle.

BUILDERS STEEL PRODUCTS CO.,

"Bilco" Fireproofing Materials,
Lafayette Bldg., Philadelphia, Pa.

ALL METAL KITCHEN FURNITURE

Modern ideas of sanitation demand a change from the old order of furnishings. Elaboration and germs has given away to simplicity, utility and cleanliness. The all-metal, all-white kitchen furniture handled by J. Reynolds & Son, 1613 Filbert street, Philadelphia, represents the modern ideal. It is quite as attractive as wood, has no odor, affords no hiding place for mice or insects, does not swell or bind, may be thoroughly cleansed with soap and water and are rust-proof as well as sanitary. Most persons imagine that metal furniture is so expensive as to be within the means only of the very well-to-do. A mistaken impression, the difference between the price of wood and metal being very slight. Kitchen cabinets, cabinet tables, kitchen tables, bath room cabinets and sanitary clothes hampers are a few of the kitchen and household conveniences manufactured by this firm. Descriptive literature and prices will be mailed on request to parties interested.

The man who does not advertise is like the man who stops his watch to save time.—Exchange.

HOW CAN AN ARCHITECT GET NEW BUSINESS?

By Charles E. White, in "Building Progress."

No matter how well trained an architect may be; no matter how clever, how energetic or how efficient he is, he will not get very far without opportunities. A man's brains may teem with ideas. He may be saturated with knowledge which would be of utmost value to his clients, but his skill avails him nothing if he has no chance to put it into practice—in other words, if he has no "jobs."

An architect may begin his practice with suburban houses and end it with public buildings. His work might grow from a small beginning, rapidly evolving into something tremendous until finally it is nation-wide in scope, but every step in the link of evolution represents a "job." If the architect had lacked his first commission, or if his first commission had not brought him others his career would have been nipped in the bud and no amount of higher education, skill or general fitness for his profession could have brought him success.

"Success," of course, is capable of many different interpretations. Success as an artist is not contingent upon huge building operations. An architect can just as well show his mettle and prove his right to be termed "artist" by designing a \$2,000 cottage as he can by designing a public building. If a man is a true artist, the artist touch can be discerned in his smaller as well as larger work. But the world has come to set a certain value on success which carries with it recognition for big things. Comparing two architects, he who has executed important work ranks (in the eyes of his fellow citizens, at any rate) higher than he whose practice has been confined to smaller buildings, and those but few.

And it isn't merely the architect's executed work that helps to make or unmake his reputation. The appearance of his office, the efficiency of his draftsmen; yes, even the looks of his desk have their effect. A slackly kept desk with papers disarranged helter-skelter make an unfavorable impression upon business men, most of whom believe in order in all things.

A painter can win recognition by merely exhibiting his canvases upon the walls of a gallery. The poor, struggling architect, however, must actually build his designs before he can hope to win that place in his profession to which (he believes) education and skill entitle him. No matter how fine his drawings may be, he will be judged by his executed work.

So, to get right down to plain, every-day English, our young practitioner must have clients—he must get "jobs."

Now job getting is very repugnant to most architects, modest fellows many of them, entirely unfitted by education or inclination to go out after work in the same commercial way that a traveling salesman sells goods. Architecture is a profession. Doctors don't

go out after business. Lawyers, we are told, consider it unethical to ask for jobs. Are medical and law professions requiring greater dignity in their disciples than architecture?

To find the happy medium in trying to attract opportunities to oneself is quite a problem. Shall one sit quietly by and wait for opportunities to arrive, or shall one energetically try to hasten and multiply them? This is the question—to wait or not to wait.

On all sides you will find successful architects whose business methods are diametrically opposed. Some wait for business and some don't. Some have received recognition and have been given more and more opportunities without having made any job-getting efforts. Others have been out in the cold world and have dragged their opportunities in.

Some young architects who were born with more than the average share of this world's goods keep draftsmen busy by entering competitions. Many an architect has won his first chance in this way, capturing a cash prize, or, better yet, securing the designing of some important public building, the execution of which brought him lasting fame. Most, however, cannot afford to maintain a crew of draftsmen for competition work. They require immediate earnings; their ideas must bring immediate returns. They must have real jobs.

Interviewed on the subject of job getting a short time ago, an architect of world-wide reputation said to me: "I would like to tell young architects how proper I believe it to be for them to try every legitimate way possible to increase the number of their clients. Entirely aside from financial responsibility to himself and his family, every architect has certain duties to perform. Therefore, he is in duty bound to increase (within the limits of good sense and refined taste, of course) the extent of his practice."

"What means do you consider in good taste?" I asked.

"Several years ago," replied the big fellow, "I adopted a custom of keeping track of every proposed building project that came to my attention. At first there were few of them that fell to my notice. Most buildings were commissioned and building operations actually started before I knew anything about them, but gradually, as my circle of friends increased, I found that I learned about many building improvements well in advance.

"This building information, call it 'building gossip' if you like (for of course much of it was inaccurate), I carefully noted in a little book which I carried in my pocket. Here it is," (and he exhibited a small leather covered pocket note book).

"Even to this day," he went on, "I note down every job I hear about. My partners carry similar books, and we certainly consider this proper and in good taste.

"In the early days," he went on, "I personally investigated every bit of gossip that came to my ears. For instance, when I heard that Jones was talking about improving the corner of State and Washington streets I inquired until I found out all about Jones—who he was and where he lived. Then I sought out a mutual friend and got him to present me to Jones. It wasn't usually necessary for me to ask Jones for the job. Every business man knows when an architect is introduced to him that he (the architect) hopes to increase the number of his clients. But meeting Jones, well introduced by a substantial, mutual friend (for such I always endeavor to find) put me right in Jones' class. Then, usually, there were other meetings and frequently Jones himself, with no prompting on the part of anyone, would talk his new building project over with me.

"Of course, I couldn't always land the job," the architect went on. "More often, at first, I didn't, but my practice slowly increased. After a while it got so I usually made a hit. That's the way it usually works," he said, energetically, "the young man who is a live wire impresses everyone with whom he comes in contact. Work is actually thrust upon him. To get jobs it is only necessary for him to bump up against the right people—that's all—bump up against the right people," and he nodded his head vigorously.

The architect swung around in his chair and looked off over the city studded with skyscrapers, scores of which (in plain view from his window) had been designed by his firm. He went on: "When we hear of a new building project, now, some member of my firm keeps tabs on it. As soon as we learn that an architect has the commission, or if for some reason the project has been abandoned, we cross it off. Until the job has been settled one way or the other, however, we endeavor to keep track of it."

Many architects get after new work by means of letters. Friends, for instance, recommend such and such firm of architects to a prospective owner. Then the firm, having been tipped off, writes to the man who is about to build. This may all be accomplished in a perfectly dignified way, but it is doubtful if letters are as satisfactory as a personal interview at which the architect can bring to bear his personality.

There is another factor in job getting, the importance of which will be vouched for by many successful architects, and that is what might be termed making good. No architect can succeed in building up a good practice unless he gives his clients good service. He may land jobs for a few years but eventually his practice is bound to dwindle down unless his reputation for efficiency is first-class.

Along this line I asked an architect not long ago, "What made your practice grow?"

"I remember my first job very well," he replied. "For a year or two—ever since I left college—I had been employed as a draftsman in one of the old time offices. One day a friend of the family came to me

and said, 'young man, I am going to build a flat building and you can have the job.' Of course I was very much elated. At first, I didn't throw up my situation but worked evenings on the plans for my new client. Never was a building more carefully designed than that one. Every inch of the plans I went over again and again until it was ready for contractors. At first I found supervision very difficult to accomplish without interfering with my position, so finally I figured that my fees would give me enough capital to live on for a few months, and I resigned.

"Then," said he, "I found a little room over on C— street, which I think cost me \$12 or \$15 a month. Then I drew all my details, spending several hours a day on the job and giving it the most vigorous supervision."

"When the job was done," went on the architect, "it was a splendidly built piece of work and the owner was delighted. He went around blowing my trumpet. Pretty soon another job came in (entirely through the efforts of my first client). This I handled efficiently and it brought another."

"The reason I have a big practice to-day, I believe," said he, "is because so far as I know I haven't a single dissatisfied client. No matter how unreasonable any client is I endeavor to please him. When the job is done I try to have him realize that he has the utmost worth of his money. During the progress of the job I literally run my legs off to save him unnecessary annoyance."

Careful supervision of work is of utmost importance to the owner. He is usually appreciative of the architect's efforts in this direction.

Said another architect, recently, discussing this point, "The most important thing, I think, is careful supervision. Owners don't know much about design but most every owner knows a good job when he sees it. He is bound to respect an architect who gets good work out of the contractors. There is nothing, I believe, that makes such a hit with an owner as a first-class, well-built job, and it is directly on account of our reputation for vigilant supervision of work that I think our practice has grown so large."

Volumes might be written about the qualities essential to win success. The very temperament of an architect may drive away clients. Some men you instinctively like. Others you dislike. One architect I know, so far as efficiency goes, should have a larger practice, yet he barely scrapes along, rarely getting a job that is profitable. I think his trouble lies in his lack of good feeling. He frightens his clients to death by the lofty manner in which he goes through life. His dignity is so great that most people cannot get anywhere near him.

The relation between architect and client is a very personal one. There should be a bond of sympathy between them. If a client has certain ideas which he believes should be incorporated in the new building the architect ought to sympathetically consider the owner's wishes. Nothing leads more swiftly and surely toward strained relations between

architect and client than to have an architect "pooh-pooh" every suggestion made by the latter.

One of the greatest chances the architect has to make a hit is in the matter of cost of the building. Recently two architects at a down-town club were discussing this point.

Said one, "My practice has grown in the last three or four years so that it now embraces three separate branches—school houses, factories and office buildings. There is generally apt to be something doing in one or more of these lines the year round."

"That's mighty fine for you," said the younger man, enviously, "how did you build up such a fine practice?"

"Just by general efficiency," replied his older confrère. "My organization is built on efficiency lines. Some one in my office is skilled in every branch of the work. We have our own engineers, our own heating and plumbing experts, our own designers. The result is we work as a unit, make plans promptly and get excellent results on the job."

"Cost," continued the architect, "is where we usually make a hit. Take, for instance, the warehouse we are now building for the estate you and I were speaking of. Three years ago this estate had a certain architect design a building which cost to build 15 cents per cubic foot. There was considerable trouble during building operations—owner was annoyed and contractor had difficulty, owing to incomplete plans. When this new warehouse project came up the owner consulted me. I showed him where I could build a first-class building for 13 cents per cubic foot—and I'm making good. We are actually building a better building at 13 cents than they formerly paid 15 cents for, in spite of the fact that prices are higher than they were three years ago."

"Can you guess who will probably get the balance of the work for that estate," asked the architect, with a chuckle.

You have got to make good to succeed. Business life seems to be all hustle and bustle with but little attention paid, apparently, to whither it tends. But there is a backbone and business acumen under the rush and worry. Business men are a keen lot. Competition is fierce for poor men struggling to keep above water. Attacks on rich men to get a slice of their money are intense. Nobody wants to spend money injudiciously. Everybody wants to get the utmost for the least cost.

The architect who wishes to succeed must imbibe the spirit of the age. He must maintain the open-door policy—open to all that pertains to his clients' interests. He must cut off all waste. He must pile on increased efficiency. He must reduce cost. He must increase quality, and all this in the face of a sharp yearly advance in cost of labor and materials.

If one architect is not able to do all this there will be others who are. He (the non-conformant) will be passed and outstripped by his fellows. They will get the big jobs and the bigger jobs. Theirs will be the growing business, his the declining. Good work

brings more good work. Business efficiency brings more business. Satisfied clients bring more clients. Every successful architect has found this to be true.

DURABILITY OF NEW YORK'S FIRST SKYSCRAPER.

While the Tower Building—New York's first example of steel frame construction—was in process of demolition a short time ago, the Bureau of Buildings made an investigation with a view to determining the extent of deterioration of the metal during the 25 years since the building was erected in accordance with plans by the late Bradford L. Gilbert. The columns were of cast iron 20 inches square and 1½ inches thick in the basement and were fireproofed with an outer shell of cast iron ¾ inch thick. The floor beams and girders were wrought iron I-beams with bolted field connections, and although the outer walls of the lower five stories were supported on wall beams at each floor, the floor beams in the upper five stories were wall bearing, thus making the building conform only partly to the cage type of construction. The foundations were double rows of wooden piles driven to hard pan and having their upper ends encased in the concrete footings of the cast iron column bases.

The report stated that a careful examination made as the building was demolished showed "practically no case of very bad rusting; that is, of corrosion sufficient to impair the strength of the metal." One of the most noticeable cases of corrosion found was at the wind brace connection of a basement column, where rust had formed around the bolt holes as well as over the entire contact surface of the connection angles. This, however, was not sufficient to reduce the strength to any material extent. The outer shell of a fourth story exterior wall column was slightly covered with rust and rust spots were beginning to form on the interior columns, but a number of similar columns which were examined were found to be almost entirely free from rust. An entrance corridor floor beam exposed to moisture was almost wholly covered with rust except where mortar adhered to it. The investigation clearly demonstrated the excellent protection afforded by cement mortar in close contact with the metal.

TRADE LITERATURE.

The September number of "Doorways," issued by the Richards-Wilcox Manufacturing Company, Aurora, Illinois, is a most attractive little publication. In addition to some very cleverly constructed advertising matter in the interest of the company's specialties, "Doorways" contains a batch of excellent humor, several good half-tone illustrations and a lot of interesting miscellany. Mr. D. M. Kagay, who is in charge, is to be congratulated on his work.

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

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Editorial Comment

Considerable discussion followed the publication in these pages, some weeks ago, of an opinion advanced by Theodore Starrett, to the effect that the builder of the future would be the architect—in other words, that the time was coming when the architect, in place of merely drawing the plans and supervising the construction, as at present, would be architect, contractor and supervisor, seeing the work through from the tentative plan on down to the completed structure. We ventured to disagree with Mr. Starrett because of our belief—founded on many years of intimate contact with the architectural fraternity—that the qualities which go to make a good architect and those which go to make a successful contractor were to a considerable degree antipodal. The best architect is not always, we have found, the best business man. And conversely the good business man is seldom a good architect. The practice of architecture, following the best traditions of the craft, calls for a man of artistic rather than commercial ideals. There are exceptions to be sure—but not in a sufficient number to weaken the force of our contention that the architect is, as a rule, not the man of business that a contractor is required to be in order to be successful.

Within the past week there has come out of the great West a new suggestion touching the future of American building—one more disquieting in its possibilities than the idea advanced by Mr. Starrett. A California writer is sponsor for the view that the architect of the future will evolve into a cog in the mechanism of the working force of the average big contractor, which is to say that connected with the office staff of the contractor will be a regular salaried force of architects, engineers and other skilled consulting assistants permanently retained to draft plans and other details of modern building under the direct supervision of the man who is to do the job.

This is a revolution purely—but is it impossible? Is it unreasonable, in this era of organization, to picture a contracting concern so equipped as to be able to undertake the building from the plans up—to design it, lay it out, build it, finish it and if need be install its mechanical equipment? Twenty years ago the consulting engineer was kept busy handling technical details for firms that nowadays regard an engineering department as a necessary feature of their working organizations. What has happened in engineering may as easily happen in architecture. The problem for the architect is to devise a way to prevent this absorption of his function. Mr. Starrett's suggestion of the architect-builder, while novel and from ethical standards even offensive, seems to possess at least the quality of effectiveness. The next twenty years must decide which it is to be—the architect subordinated to the contractor and a part of his working personnel, or the contractor sub-

merged in the architect with an organization capable of furnishing building as well as design. Work out as it will, the question is an interesting one and eminently worthy of the best thought of men who believe in the future of American architecture and in its preservation against the commercializing tendencies of a commercial era.

* * *

In the "American Carpenter and Builder" for September we find the little sign-post to the drift of affairs:

"The Architect and Builder: He is a more practical architect because of his building experience. He is a better and more up-to-date builder because of his study of planning. His work gives fullest satisfaction since all is under his responsibility. Here's to the architect and builder—already in control of the great bulk of America's building work, and the logical heir to still more in the future." In the language of Bell I read: "What are you going to do about it?"

* * *

The editor of "The Guide" is in receipt of a letter from A. L. Williston, of the Wentworth Institute, Boston, calling attention to certain of the more recent activities of this excellent school. "I am sending you, under separate cover," writes Mr. Williston, "a catalogue of Wentworth Institute which has just been received from the printers. I think it would be of interest to your readers to know something of the new developments which we are planning. Our courses have proven so popular that we have added among other courses a two-year course in architectural construction. This new course will cover a very much needed field in our educational system, and the preliminary enrollment indicates that this most practical institution has again supplied a vital need in this community. Only those engaged in the building trades realize how modern fireproof, steel and cement construction, now used for our buildings, is creating a demand for men especially trained in these branches, or how difficult it is to secure men with an intelligent understanding of principles involved and the practical application of these principles. This new type of construction is also affording excellent opportunities for the advancement and leadership for young men who are properly trained. The new course in Architectural Construction, to be presented by Wentworth Institute, will train this type of workman, putting the young man in a position to advance rapidly to the position of foreman, superintendents, detail designers and building superintendents. The success of the course is already assured, and a strong corps of practical instructors have been engaged to take charge of the work."

* * *

Here is practical instruction in a practical field practically carried out. Our own Drexel Institute and Wanamaker Institute might

most profitably duplicate the courses here outlined. There is an immense and steadily increasing demand in the building field for men skilled in the intricacies and technicalities of concrete steel and cement construction. This demand is certain to increase rather than diminish as the years roll on. There could be no better vocational training for young men who aim to fit themselves for a self-sustaining position in life. The Wentworth Institute is doing a great and good work. The training that makes men independently self-supporting makes good citizens.

Hon. Robert Adamson, now Fire Commissioner of New York City, in an address before the convention of the National Association of Manufacturers, recently gave some interesting data regarding the origin of fires in that city.

"You may be interested to know," said Mr. Adamson, "that last year out of about 12,000 fires in the city, I believe there were only 260 that occurred in factories; but there were something like 3,700 that occurred in the homes of the people. And an analysis of the figures shows that they occurred from simple acts of carelessness.

Some of the causes of fire I can give you here:

1,072 fires were due to carelessness with cigars and cigarettes.

1,175 were due to carelessness with matches.

1,058 fires were due to street bon-fires.

753 fires were due to carelessness with gas ranges and radiators.

696 fires were due to overheated flues, stovepipes and furnaces.

703 fires were due to failure to keep chimneys clean.

588 fires were due to children playing with matches or fire.

351 fires were due to carelessness with candles.

394 fires were due to igniting vapors from benzine or gasoline.

311 fires were due to mischievousness.

And it was expensive to the city of New York every time one of these fires occurs, that is, the cost of wear and tear of machinery and fuel and service of the firemen. You can see that it amounted to a great deal to the taxpayers, not to mention the great loss of property represented by those fires, and those fires which I have just enumerated, carelessness fires and negligent fires, were responsible perhaps for three-quarters of our loss of more than \$9,000,000 last year in this city."

Mr. Adamson makes the claim that nearly every fire that has occurred in this country in the last few years can be traced to some act of carelessness.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

SOMETHING ABOUT TERRAZZO FLOORS

Extracts from a Paper read before the Society of Contractors of Federal Buildings by Charles R. Marsh.

Terrazzo is defined by Russell Sturgis, in his "Dictionary of Architecture and Building," as: "An expensive concrete pavement used for floors in the province of Venetia, even in houses of some pretensions to elegance. Lime mortar made unusually dry is the principal material; in it are inlaid small pieces of marble, usually not too large to pass through a ring an inch and a half in diameter. The whole is beaten hard, rubbed down and polished. Fine examples are given, full size, in Gruner's 'Specimens of Oriental Art.'"

I have been unable to find anything further than the above, regarding the subject. Because of the very limited literature pertaining to terrazzo, and because of the great difference in the appearance of it and the varying ideas held as to how such work should be done, the writer was prompted, in March, 1912, to address the members of the society regarding certain vital details of this subject. The generous response to that postal card inquiry contained many, varying and conflicting opinions. This shows that the subject was an interesting one to most of us. This, in turn, prompted me to go further into the subject, and as a result individual letters were addressed to about ten contractors for terrazzo work; to about fifteen firms of architects and to five professors of architecture in the leading universities having courses in architecture.

The replies from professors of architecture were disappointing, as they contained absolutely nothing of value to a better understanding of the subject.

By ascertaining the ideas and opinions of the best architects and contractors for any class of work and supplementing that data by the opinions of superintendents who have seen and noted the results obtained by various methods and designs, we can decide on what is best both from a structural and an economic standpoint.

Superintendents for the most part seem to be biased in their opinions in favor of the methods specified for the work they have in hand and have apparently given little thought as to how methods or design may be improved.

Superintendents all agree that it is necessary to have the floor slab well cleaned and washed before the base for the terrazzo is placed. Mention is made by very few to one of the most important items, that is, the aggregate. One supervising superintendent states: "Never use cinders, as good cinders are hard to get and expansion in most cinders causes the work to lift. Use stone, gravel, terra cotta and brick provided they are free from coal, lime or magnesia." Contrast this with the varying opinion of a superintendent who states: "I think the best way to lay terrazzo on a fireproof floor is to use a fill,

where necessary, of cinder concrete."

The Venetian Tile and Marble Company, of Detroit, write: "We do not think it really necessary to lay the finish coat of terrazzo before the base has set, but the base should not be left for more than twenty-four hours. "A second Boston firm thinks that it is best to lay the finish the day after the base is placed, and a third Boston contractor is of the opinion that it is best to lay the finish after the base has set, but not more than twelve hours later.

All contractors agree that it is best to mix the chips and cement dry and then add the water. The Fishbach Company state that they do not approve of the old and inefficient method of spreading a sand coat, and on this sprinkling marble and rolling it. When the proportions of chips to cement are mentioned it is usually one cement to two and one-half chips; one contractor thinks that it is best not to specify the proportions of cement, but that enough be added to fill the interstices. This latter method is the requirement in late office specifications. None of the contractors state the exact method of applying the marble chips.

Architects in writing specifications for terrazzo vary in the length and minuteness, but on the whole they require stricter methods than contractors propose.

McKim, Mead & White specify that the wearing surface shall be placed before the base has set, and that only enough cement be added to the chips to "firmly unite the pieces."

Peabody & Stearns in their specifications for the new Boston custom house call for terrazzo one inch thick, and "to be rolled and



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then to have more chips strewn over the surface and rolled again."

F. M. Andrews requires in the specifications for the new Hotel McAlpine, New York, that there shall be a cinder concrete base, and that the terrazzo shall be placed two days after the laying of the same, or to quote fully from the specifications:

"The top finish shall be laid within two days of the placing of the base, preferably as closely following as possible. A thin film of 1:2 mortar is to be drawn over the cinder concrete base in advance of the main bulk, and this is to be thoroughly troweled into the base and then brought to within one-half inch of the top of the borders. Level this and while still soft cover the same with a bed of clear Portland cement paste and marble chips, in equal quantities by bulk. Note that all terrazzo is to seven-eighths inch to one inch thick. The marble chips shall be of such size as will pass through a three-eighths inch mesh. Such of the chips as will not pass through a five-eighths inch mesh are to be used for sprinkling on top of mixture of cement paste and marble chips after same has been leveled, and are to be rolled in."

The specifications for the new Field Museum at Chicago, written in the office of D. H. Burnham & Co. in part as follows:

"Filling under terrazzo shall be composed of one cement, two sand, and four brick. Before concrete filling commences to set spread a three-fourths inch wearing surface composed of marble chips with only enough neat Portland cement to firmly unite the pieces. Trowel and roll, and after the mortar has set, the terrazzo to a smooth, even surface and wash clean.

For all marble tile and terrazzo floors concrete bedding will be brought to within two inches of the finished floor surface by the

masonry contractor, the marble contractor shall take the work from this point. Before depositing the bedding mortar on the concrete, the entire surface shall be well saturated with water to prevent the too rapid absorption of the water from the bedding mortar. Deposit upon the concrete a bed of cement mortar of two parts non-staining Portland cement, and three parts clean, white sand. Mortar shall be spread evenly over required surface to established floor level."

Carrere & Hastings in their general specifications for terrazzo require:

"Concrete ground work shall be thoroughly swept and washed and lightly sprinkled with dry Portland cement immediately before terrazzo floor mixture is placed in position. Terrazzo shall be composed of hard white marble chips and just sufficient mortar of one part white Portland cement and one and one-half parts white sand to fill the voids. This mixture shall be laid not less than one inch thick and marble chips shall be laid over the surface and rammed in."

Cass Gilbert, quoting from the specifications for the new National State Bank Building, Newark, New Jersey, specifies for terrazzo, which is all to be placed in corridors, as follows:

"All terrazzo is to be laid in the best manner, consisting of topping and bed; the topping being made of white Italian chips with best White Atlas cement and to be not less than one inch in thickness. The bed to be one inch thick composed of one part Portland cement, three parts coarse sand, and five parts clean gravel. On top of bed and laid coincident with same lay the terrazzo topping."

Shepley, Rutan & Coolidge write as follows: "We do not specify the composition of terrazzo floors, and we might add that the terrazzo is always placed on a concrete fill, all conduits, etc., being kept well below the top of the fill, otherwise we find cracks are apt to appear in the finish terrazzo."

Warren & Wetmore, architects for the new Grand Central station, New York, remark that they usually have the surfacing put on before the bed is thoroughly set.

In reference to terrazzo on wood floors, a

superintendent writes: "I do not think it necessary to reinforce the base on a fireproof floor, and not on a wooden floor if laid properly in blocks." Another superintendent says that he has come to the conclusion "that good work cannot be assured when terrazzo is laid on wood base."

Contractors also vary in their opinions as to the necessity of reinforcing the base.

David Fishach & Co., of Baltimore, "recommend the use of BB lath 27 gauge, and placing the same between the base and the cushion coat, the only detriment in reinforcing the base is the expense it incurs."

The Levis Mosaic Co., of Boston, do not consider it necessary to use reinforcement when the work is to be on a floor of fireproof construction.

Perhaps the most interesting reply to my inquiries is one from Waldo Brothers, of Boston, who write as follows: "We do not think it necessary to use reinforcement in the following instances: 1. In small places (75 feet or less); 2. In old buildings where settlement has occurred a long time previous; 3. In places where there is a very thick concrete floor slab. We do think its use is necessary in the following cases: 1. In places where there is constant vibration; 2. In new buildings where there is sure to be settlement; 3. Where the concrete floor slab is not very thick; 4. Where terrazzo is to be laid over wooden construction."

In regard to the largest area that may be laid without expansion joints most superintendents favor the size as specified in the present office specifications, 4x4, 5x5, and in some instances 6x6. One superintendent states that an area 20x20 has been laid by him, and can be laid without danger of cracking. This opinion is also held by superintendents who have had large experience in this class of work. Instances of panels 16x16, and another 20x30, are cited with remarks that they have not cracked after three or four years' wear. Personally I know of two panels more than 200 feet in area, put in without joints of any kind, and without reinforcement, that have been subject to a great amount of traffic in a hotel lobby, that were put in nine years ago, and which show no signs of failure to-day.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**Pennsylvania has about 7½ million acres of timber land, one-eighth of which is owned by the state. The total value of the State's timber is 139 million dollars.

**Hardware men have learned with keen regret of the death of William J. Ladd, of Sargent & Co. His death occurred at his home in Upper Montclair, N. J., and was due

to dilation of the heart. William J. Ladd was born in New York City, February 12, 1843, and entered the employ of Sargent & Co., New York, in 1856. He has been a director of Sargent & Co. since its incorporation. He was always an active, energetic and hard worker. Mr. Ladd was the youngest of a quartette, the other members of which were

George Henry Sargent, Thomas J. Atkins and George Munson, who worked together for about fifty years for the upbuilding of the Sargent business. For nearly fifty years he was in charge of the compilation and publication of the Sargent catalog, which in that time has grown from a small volume to the great book of to-day. The crowning work of his life, which he leaves as a monument, is Ladd's Discount Book, so familiar to all in the hardware and allied trades. This book was first issued in 1887, and its use gradually increased, extending to all branches of industry using discounts. At the time of his death Mr. Ladd had just completed the third revised edition.

**The annual sales convention of roadmen and department managers of the National Manufacturing Company occurred at the home office and factory at Sterling, Ill. A very enthusiastic meeting is reported with everyone in attendance and everyone loaded to the guards with good ideas for "National" hardware business. The National line of builders' hardware is becoming more extensive every year with "ornamental things" and "Big 4" door hangers still the leaders.

**Mr. H. N. Phillips has recently been made manager of the Worcester Manufacturing Co., Worcester, Mass., manufacturers of the Worcester Blount door checks. Mr. Phillips is well qualified for this work, as he was connected with the Russell & Erwin Manufacturing Co. for the past 15 years in the manufacturing and executive departments. Mr. R. J. Murphy has retired from the active management of Worcester Manufacturing Co., but is still president of the company.

**The eleventh annual meeting of the National Paving Brick Manufacturers' Association was held at Buffalo, N. Y., Statler Hotel, September 9, 10 and 11. On September 9 was held the business meeting of the association. September 10 and 11 were given over to "A Study of Brick Pavement Construction for Country Highways." This study engaged the attention not only of the members of the association, but a large number of engineers and road builders to whom the organization extended an invitation to take part in the program.

**The Second International Exposition of Safety and Sanitation will be held at the Grand Central Palace, New York City, December 12 to 19, 1914. This exposition is held under the auspices of the American Museum of Safety, and according to present plans will surpass the very successful exhibition held at the same place last year.

**The International Association of Municipal Electricians will hold its annual convention at Atlantic City, N. J., September 15 to 18. Secretary, C. W. Pyke, Electrical Bureau, Philadelphia, Pa.

**The American Road Builders' Association is making plans to hold a joint meeting with the American Highway Association at some time during the Panama-Pacific Exposition. The meeting will be held either in San Francisco or Oakland. Committees have been formed who are working out the details.

**John J. McHale has recently become as-

sociated with the Atlantic Radiator Co., Huntingdon, Pa., as Eastern representative. Mr. McHale will cover the territory including New York City, Brooklyn, Long Island and New Jersey.

**Among the general subjects to be treated before the International Engineering Congress at San Francisco, 1915, probably the one having the broadest interest is that of materials of engineering construction, which enters into all phases of engineering activity. The list of topics which will be treated in this section is as follows: "Timber: Preservation, Treatment of Timber," "Substitutes for Timber in Engineering Construction," "Brick in Engineering Structures," "Clay Products in Engineering Structures," "Probable and Presumptive Life of Concrete Structures Made from Modern Cement," "Aggregates for Concrete," "Slag Cement," "Waterproof Concrete," "Cement Containing Additions of Finely Ground Material," "Economics of the World's Supply of Iron," "The Life of Iron and Steel Structures," "The Employment of Special Steel in Engineering Construction," "The Place of Copper in the Present Engineering Field, and the economics of the World's Supply Thereof," "Alloys and Their Use in Engineering Construction," "Aluminum in Engineering Construction," "The Influence of the Testing of Materials Upon Advances in the Designing of Engineering Structures and Machines," "Cement Testing," "Testing of Metals," "Testing Fill-Size Members," "Proof Testing of Structures." The papers to be presented from the United States have already been arranged for from the recognized authorities on the various topics. Arrangements for the papers from foreign authors are being rapidly concluded, and the aggregation of papers which will be presented will constitute a broad review of the field and be of the highest value. Full information concerning the Congress, the price of subscription, and the arrangement for purchase of values of the proceedings, may be obtained by addressing the Committee of Management, International Engineering Congress 1915, Foxcroft Building, San Francisco, Cal.

BENEFIT OF WARMING HOMES WITH FURNACES.

To show prospective customers for heating equipment the advantages of the furnace for sending a continual flow of fresh warm air into their homes, the manufacturers of furnaces have prepared for general distribution without reference to any particular furnace, an eight-page booklet entitled "Warm Air the Best," from which the following extracts have been made:

Necessity compels the use of some adequate means of supplying artificial heat during many months of each year in the home or other buildings in which yourself and family spend a large portion of your lives. The health and comfort of the household or the users of any building depends to a serious extent on a proper arrangement for heating.

Therefore, the selection of the best and most economical method for supplying this heat is a matter entitled to your first and careful consideration.

The popular demand for a permanently satisfactory and yet comparatively inexpensive heating plant has caused the development of the modern warm-air furnace, affording a thoroughly reliable and superior heating plant, which is at once healthful, economical, practical and satisfactory, with the material advantage of being obtainable at moderate cost. It is the oldest and most generally used method of heating the home and continues in favor because it has been demonstrated to be the correct solution of the problem of heating homes and moderate sized buildings for which no other system is so perfectly adapted.

Some reasons for favoring the furnace are:

It will pay for itself in the saving of fuel.

It will ventilate your rooms and make your home sanitary.

It is made in many styles and sizes and for all the different fuels.

It is recommended by physicians and heating and ventilating engineers.

It will warm the floors as well as the air in the rooms and furnish an even, steady heat.

It costs little to install and will give long service.

It is inexpensive to make the few repairs necessary and will last a lifetime with ordinary care.

It is simple and economical to operate. It requires little attention—only a few minutes a day.

It is most cleanly, sanitary and healthful and will furnish a quicker heat than other systems.

It will heat every part of your house or building with only one fire, affording an even, pleasant heat.

It saves floor and wall space in the rooms and halls and does away with a number of separate fires.

It does away with the dirt and ashes incident to stoves or open fireplaces, and there is less danger of fire.

It furnishes the greatest amount of clean air and does not cause dust to collect on the walls and ruin the decorations.

It is the only system by which proper humidity can be supplied in small or medium-sized buildings, and this proper humidity—or, in other words, the correct amount of moisture in the air—is what produces a soft, balmy, pleasant temperature.

With all of these advantages naturally and positively in favor of warm-air furnace heating, it should still be borne in mind that the first cost, installation, operation and upkeep is low compared to that of other systems, and nothing is sacrificed for the sake of economy when a warm-air heating plant is used.

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STAIRCASE APARTMENTS.

French architects have recently originated a type of apartment building that is bound to influence city planning and the construction of city dwelling houses the world over. It may be described as the "staircase building," and, apart from being novel and attractive, it has the inestimable advantage of solving, to a great extent, the problem of light and air for all in narrow, crowded streets.

The first floor only extends to the building line. The succeeding floors are each set back a certain distance, the free space in front of each floor being utilized as an open porch or promenade, or converted into a window-box garden. Naturally, any given floor is narrower than those below it, until when we reach the top we find a floor so narrow that it can accommodate only one apartment. But that apartment has the benefit of light on all sides, if the building stands clear of its neigh-

bors, and it consequently commands a higher rental.

The Heights of Building Commission appointed some time ago by the municipal government of New York paid special attention to the question of protecting city dwellers from the evil results not only of overcrowding, but shutting off of light and air that may occur, for instance, if 12-story buildings are erected on either side of one that is only five or six stories high. In Paris that particular problem does not exist.

It is interesting to remember that the New York Height of Buildings Commission made mention in its report of the French "staircase building;" but to date no example of this style of architecture has been erected in America. There are not many, so far, even in Paris, but the idea has "caught on." At least a score are under construction in various parts of the city. One has just been completed in the Rue Vavin, on the left bank of the Seine.

LOCATION OF FURNACE AND REGISTERS IN HOUSE HEATING

It only requires a clear and concise explanation of the important bearing that the location of the furnace has on the success of a warm-air heating system and the economy in fuel which will result from proper location for the owner of a building to join hands with the furnaceman in getting the furnace put in the right place. The right place is admittedly that which will call for the shortest possible run of piping to all the registers on the system.

At times the owner of the house is desirous of avoiding the placing of a register at some particular point often on account of the way in which the room is furnished. In such an event he generally will permit the register to be placed at another point no further away from the furnace and in an equally advantageous position so far as heating is concerned. In fact, it is the duty of the furnace heating contractor to adapt his work as far as possible to the convenience and pleasure of the owner, but if a location is selected that will make successful heating difficult and will entail the forcing of the furnace in severe weather the customer should have this made clear. When this is done by the competent furnace man he as

a rule will find that his customer will permit the reasonable thing to be done.

One of the greatest troubles found in the average practice is to get a fresh air supply duct that is large enough. A good influence is being exerted upon the design of warm-air systems in relation to the air supply duct by the circulation of air from within the building. The majority of men seem to realize that a larger inside air duct is needed when the air is taken from inside than from out of doors, and they also find that there is little advantage in making the ducts of two different sizes, particularly if the two come together at a point controlled by a damper so that either outside or inside air can be used at will. The only kind of material fit for making an air supply duct is sheet iron. Whether it is of a round or rectangular shape, it should be galvanized to protect it from rust, and heavy so that it will hold its shape and permit of efficient dampers being used.

Notwithstanding the various rules that can be used by furnacemen with advantage, the use of common sense has the most important bearing on the design of the work in the end. Its installation in such a manner as to

avoid friction and the location of registers and furnace must be governed by common sense rather than by any fixed rule. There are, however, a few things that govern the situation. First of these is the heat lost by transmission through the walls and windows and by the escape of the air brought in to make room for more warm air. In consequence, it has been found that good practice requires the air in residences to be changed two or three or more times per hour. With the cubic contents of the room known and multiplied by 2, 3 or 4, the total volume of warm air required is known. The velocity at which air will flow through the furnace heating system is also well established, and this is not over 6 feet per second for first floor rooms and more often 4 feet or 5 feet. It is also good practice to allow a velocity of not over 8 or 9 feet per second for the air flow to second floor rooms. With this velocity and the total amount of air required known, it is a calculation which a grammar school boy can make to determine the size of the riser and warm-air pipes.

When this is known the size of the furnace required can also be readily computed from manufacturers' ratings, as proved by experience with different types of furnace.—"Building Age."

Statement of the Ownership, Management, Circulation, etc.

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(Signed)

Building News Publishing Co.,
Louis S. DeLone, Treasurer.

Sworn and subscribed before me this 14th day of September, 1914.

John A. Fitzpatrick, Notary Public.
(My commission expires April 8th, 1917.)

ARCHITECTURAL NOTES.

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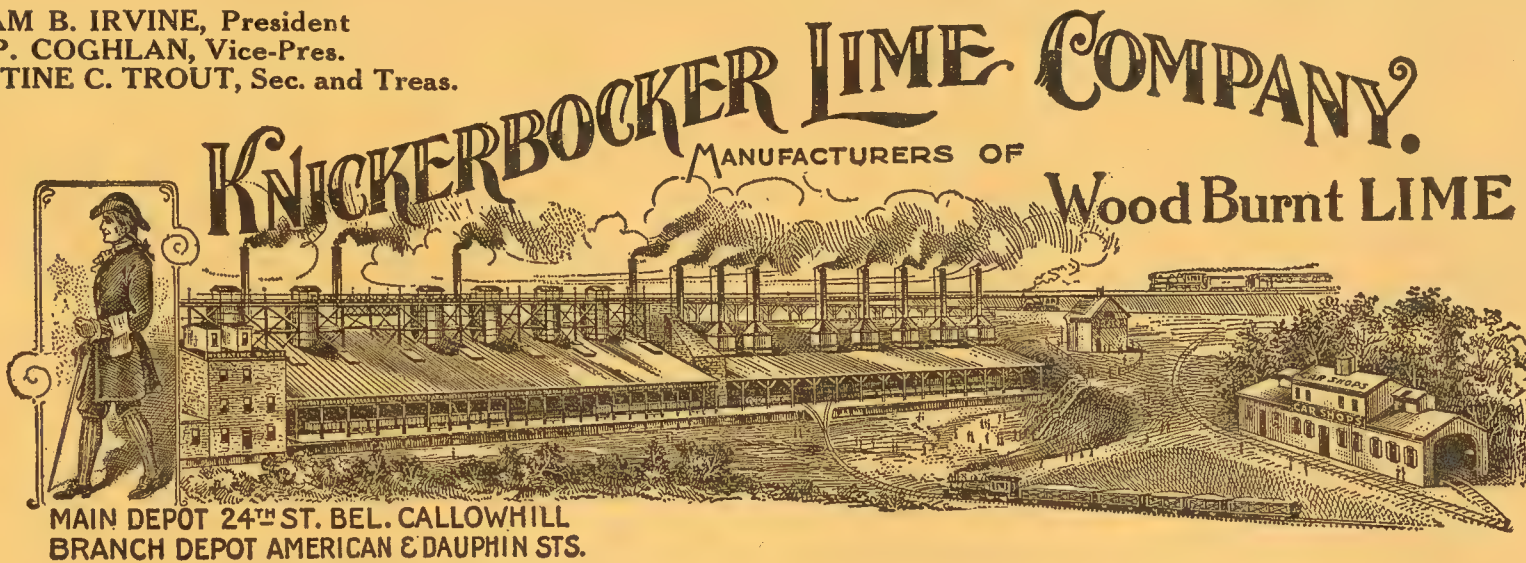
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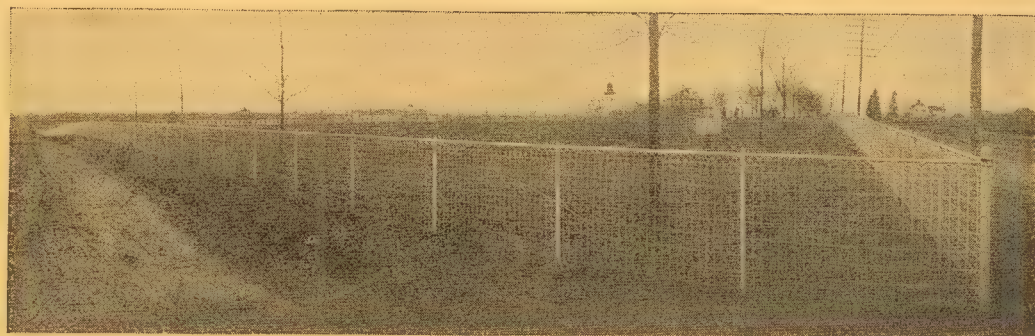
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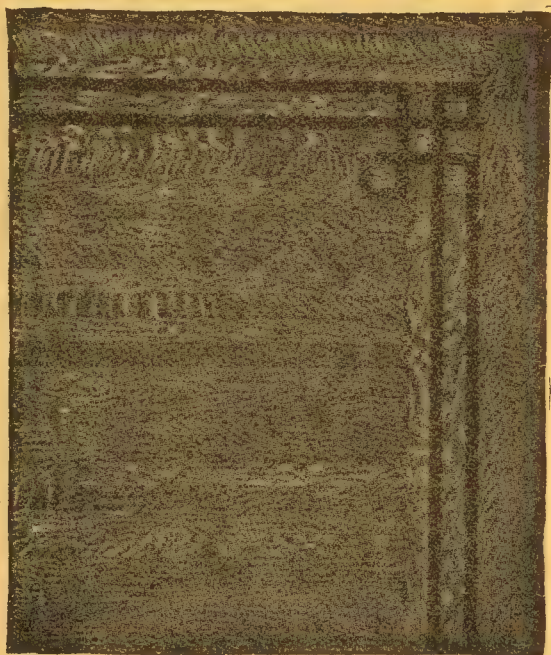
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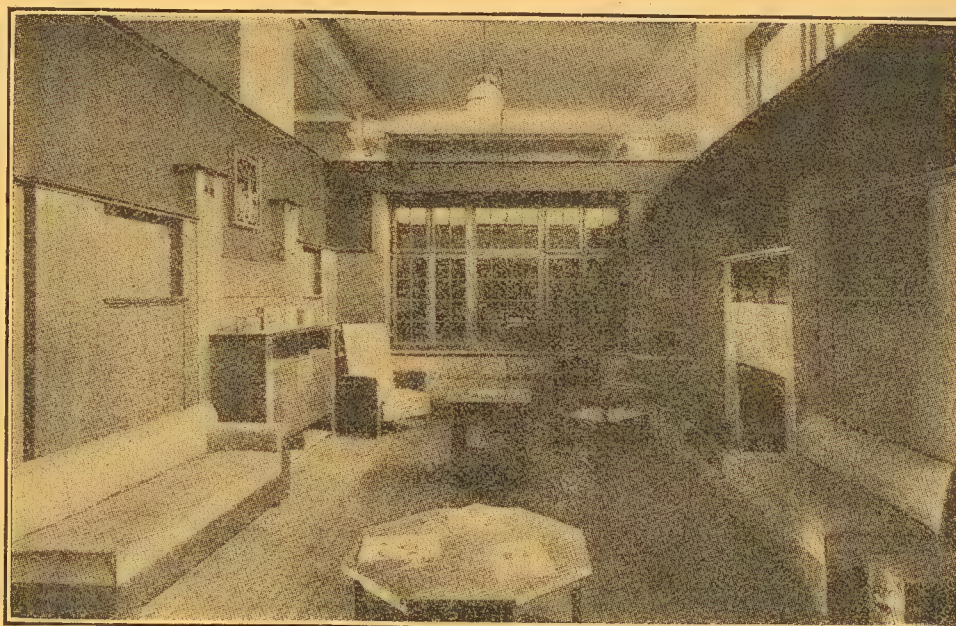
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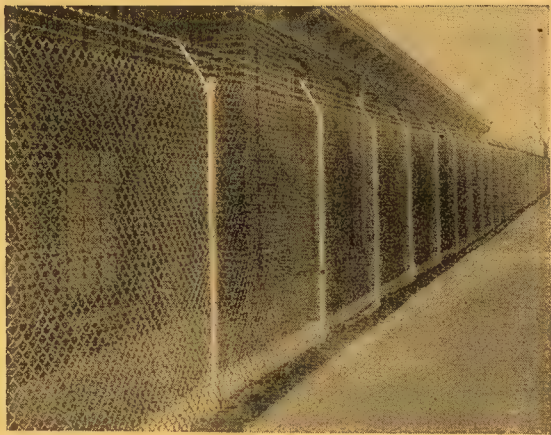
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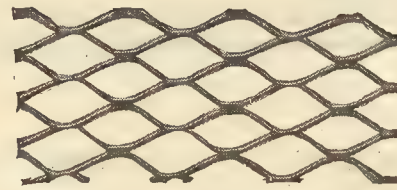
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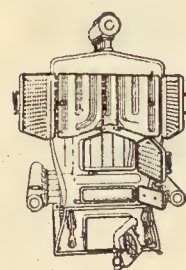
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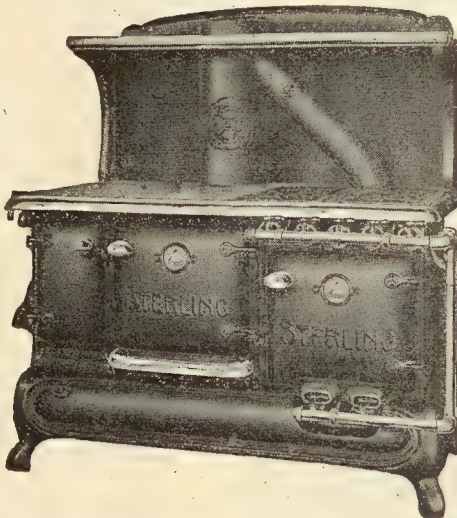
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Vol. XXIX., No. 38.

PHILADELPHIA, WEDNESDAY, SEPTEMBER 23, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Warehouse, Twenty-second and race streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, H. Fryman, on premises. Brick, 1 story, 51x87 feet and 15x22 feet, slag roof, steam heating, electric lighting, waterproofing. Architect taking bids due September 26th. The following are figuring: J. Sims Wilson, 1125 Brown street; Morrow Construction Co., 308 South Twelfth street; George Hogg, 1634 Sansom street; Mitchell Bros., 2135 Race street; Elfreth & Wood, 1708 Sansom street; F. Roe Searing, Perry Building; J. R. Jackson, Perry Building; A. L. Fretz & Son, 1222 Chancellor street; A. Whitehead, Inc., 1624 Latimer street; William R. Dougherty, 1610 Sansom street, all of Philadelphia.

Stores (alt. and add.), 602 Green street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, P. Siegel, 604 Green street, Philadelphia. Brick, 3 stories, 15x30 feet, slag roof, steam heating, electric lighting. Plans in progress.

Club House, 1616 Master street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owners, Young Men's Hebrew Association, care of Morris Wolf, Secretary. Brick, steel and terra cotta, 4 stories, 160x100 feet, slag and tile roof, metal lath, waterproofing and dampproofing (heating and lighting separate bids). Revised plans in progress. Bids in a few days.

Store and Residence, Eleventh and Brown streets, Philadelphia. Architect, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, A. Graboyes, 1021 North Front street, Philadelphia. Brick, 3 stories, 21x55 feet, slag roof, hot water heating, electric lighting. Owner taking bids due September 24th. Stites & Stites, 1713 North Twenty-fourth street, are figuring.

Power House, Boston avenue and York street, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, A. Schoenhut Co., on premises. Brick, concrete and steel, 1 story, 54x125 feet, slag roof, waterproofing, metal frames and sash. Architect taking bids due September 25th. The following are figuring: James G. Doak &

Co., Crozer Building; Burd P. Evans Co., Thirteenth and Wallace street; John N. Gill & Co., Heed Building; Philip Haibach Contracting Co., Twenty-sixth and Thompson streets; F. A. Havens & Co., 845 North Nineteenth street; George Kessler Contracting Co., Drexel Building; Ketcham & McQuade, 1029 Brown street; Herman Voight, 1251 North Twenty-eighth street; Stacy Reeves & Sons, 2011 Market street, all of Philadelphia.

Residence (alt. and add.), Overbrook, Pa. Philadelphia, \$5,000. Architect, T. H. Ather-ton, Jr., Wilkes-Barre, Pa. Owner, W. L. McCoy, Real Estate Trust Building, Philadelphia. Stone and brick, 2 stories, 20x35 feet, shingle roof, hot air heating, electric lighting. Owner taking bids. E. J. Kreitzburg, 1345 Arch street, Philadelphia, is the only bidder.

Residence and Garage, 4313-16 North Broad street, Philadelphia. Architect, Earl A. Duff, 4835 North Lawrence street, Philadelphia. Owner, Mary J. Doyle, 832 East Allegheny avenue, Philadelphia. Brick, 3 stories, 21x81 feet, tile roof, hot water heating, electric lighting. Owner has received bids.

Saturating Building (add.), Gray's Ferry road, Philadelphia. Architect, private plans. Owner, Barrett Manufacturing Co., 17 Battery Place, New York City, and Land Title Building, Philadelphia. Brick, 1 story, 100x112 feet. Owner has received bids.

Machine Shop (add.), Seventeenth and Cambria streets, Philadelphia. Architect, private plans. Owners, F. J. Stokes Machine Co., on premises. Brick, 1 story, 32x45 feet, slag roof. Owners have received bids.

Mill (add.), Tioga and "D" streets, Philadelphia. Architect, private plans. Owners, Brighton Worsted Co., on premises. Brick, 2 stories, 42x58 feet, slag roof. Owners have received bids.

Factory Building, Front and Florist sts., Philadelphia. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, Ferdinand D. Flemings, Franklin Bank Building, Philadelphia. Brick and concrete, fireproof, 2 stories, 40x99 feet, slag roof, steam heating, electric lighting. Architect taking bids

due September 24th. The following are figuring: Smith-Hardican Co., 1606 Cherry street; H. H. Wehmeyer, 1004 West Lehigh avenue; Standard Construction Co., Drexel Building; George F. Pawling Co., Broad and Vine streets; Fidelity Construction Co., Heed Building; J. W. Colesbury, 130 North Twelfth street; D. S. Bader, 1345 Arch street, all of Philadelphia.

Stores and Garage, 415 North Sixty-third street, Philadelphia. Architect, V. Vaughn Tunnell, 5548 Haverford avenue, Philadelphia. Owner, Clifford W. Miller, 5716 Girard avenue, Philadelphia. Brick, 1 story, 16x220 feet, slag roof, steam heating, electric lighting. Owner taking bids due September 26th. J. Richard Jackson, Perry Building; D. H. Sharp Co., Heed Building; J. D. Fisher, 5718 Market street; George L. Sipps, 912 Locust street, and W. C. Magee, 5149 Wyalusing avenue, all of Philadelphia, are figuring.

Apartments (alt. and add.), 5213-5215 Chestnut street, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Isaac Kershaw, Fifty-second and Chestnut streets, Philadelphia. Brick, 2 stories. Plans in progress.

Apartment House, Mentor and A streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Frank P. Hood, Fifty-second and Walnut streets, Philadelphia. Brick, 2 stories, 92x22 feet, slag, green tile and canvas roof, hot water heating, electric lighting. Owner taking bids, due September 26th. E. J. Reiff & Co., 1131 Race street, Philadelphia, is figuring.

Club House, 1616 Master street, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owners, Young Men's Hebrew Association, care of Morris Wolf, Secretary. Brick and steel, terra cotta and enameled brick, 4 stories, 160x100 feet, slag and tile roof, metal lath, waterproofing and dampproofing (heating and lighting separate bids). Architects taking revised bids, due September 26th. The following are figuring: Charles Gilpin, Harrison Building; Freund-Seidenbach Co., Bulletin Building; Irwin & Leighton, 126 North Twelfth street;

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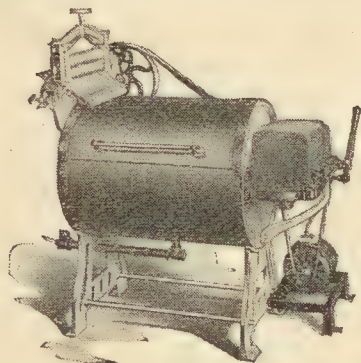
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Store House (add.), Frankford, Philadel-
phia. Architect, private plans. Owner, U.

S. Government, Frankford Arsenal, Frank-
ford, Philadelphia. Brick, 1 story, 47x137
feet, slate roof, waterproofing. Lowest bid
submitted by P. J. Hurley, 1233 Cherry street,
Philadelphia, \$29,935.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man
and Interior and Exterior Fitter.

Storage House, Thirty-first and Master sts.,
Philadelphia, \$6,000. Architect, private plans.
Owner, George F. Bauer, 1409 North Thirty-
first street, Philadelphia. Brick, second-story
addition, 50x100 feet, slag roof. Contract
awarded to Philip Haibach Contracting Co.,
Twenty-sixth and Thompson streets, Philadel-
phia.

Factory (add.), 504 North Twelfth street,
Philadelphia, \$2,000. Architects, private plans.
Owner, Tinius Olsen & Sons, 500 North
Twelfth street, Philadelphia. Brick, 2 stories,
17x38 feet, slag roof, electric lighting. Con-
tract awarded to Lam Building Co., 1001
Wood street, Philadelphia.

Warehouse (alt.), 710 South Eleventh st.,
Philadelphia, \$1,900. Architect, private plans.
Owner, M. A. Callan, 145 North Fifty-ninth
street, Philadelphia. Brick, 3 stories, slag
roof, electric lighting, metal ceilings. Con-
tract awarded to Lam Building Co. 1001
Wood street, Philadelphia.

Factory, Snyder avenue and Swanson
street, Philadelphia, \$15,000. Architect, pri-
vate plans. Owners, General Manufacturing
Co., on premises. Brick and concrete, 1 story,
63x114 feet, slag roof, metal sash and frames.
Contract awarded to F. W. Van Loon, Denckla
Building, Philadelphia, who is taking sub-
bids.

Dye House (add.), Womrath and Torres-
dale avenue, Philadelphia, \$6,000. Architect,
private plans. Owner, Joseph Schmidt, care
of C. E. Outterson, 4509 Frankford avenue,
Philadelphia. Brick, 2 stories, slag roof.
Contract awarded to Barnes Bros., 2065 East
Allegheny avenue, Philadelphia.

Residence (alt. and add.), 212 High street,
Germantown, Philadelphia. Architects, pri-
vate plans. Owner, A. P. Valentine, Jr., care
of Bureau Building Inspections, City Hall,
Philadelphia. Stone, 3 stories, 10x18 feet, tin
roof, oak floors (steam heating and electric
lighting reserved). Contract awarded to H.
H. Cluck, 170 East Walnut lane, Philadelphia.

Shipping Building, Fifth street and Fair-
mount avenue, Philadelphia, \$3,000. Archi-
tects, Schermerhorn & Phillips, 430 Walnut
street, Philadelphia. Owner, H. K. Wampole
& Co., 426 Fairmount avenue, Philadelphia.
Brick, 1 story 30x90 feet, slag roof. Contract
awarded to Stewart Bros., 2526 North Orkney
street, Philadelphia.

Factory, Fifty-ninth street and Woodland
avenue, Philadelphia. Architect, Harry Par-
ker, Drexel Building, Philadelphia. Owner,
Fairmount Electric & Manufacturing Co.,
2203 Pearl street, Philadelphia. Brick, 2
stories, 45x100 feet, slag roof. Contract
awarded to J. J. Harding, 746 Ringgold
street, Philadelphia.

Garage, Willow Grove and Germantown ave-
nues, Philadelphia. Architect, S. A. Stone-
back, 2301 North College avenue, Philadel-
phia. Owners, Mrs. A. R. Snyder, 7942 Ger-
mantown avenue, Philadelphia. Stone, 2
stories, 76x84 feet, slag roof, hot water heat-
ing, electric lighting, dampproofing, metal
lath. Contract awarded to Pringle Borthwick,
8018 Germantown avenue, Philadelphia.
(Note change.)

Accident Ward (add.), Broad and Wolf sts.,
Philadelphia, \$6,000. Architects, Stearns &
Castor, Stephen Girard Building, Philadel-

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phia. Owner, Methodist Episcopal Hospital, Broad and Wolf streets, Philadelphia. Brick, 2 stories, tile roof, steam heating, electric lighting, metal lath, metal sash and frames. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Hospital (alt. and add.), Frankford avenue and Walkefield street, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Frankford Hospital, on premises. Brick, 4 stories, slag roof (heating and lighting reserved), metal lath

(elevators reserved). Contract awarded to A. Raymond Raff, 163 Thompson street, Philadelphia.

Residence, Torresdale, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. H. M. P. Massey, Milnor and Grant streets, Philadelphia. Frame and plaster, 2½ stories, 25x26 feet and 15x19 feet, shingle and Carey roof (heating and lighting reserved). Contract awarded to N. K. Freas, Andalusia, Pa.

PENNSYLVANIA Construction News

Residence, Hyde Park, Pa., \$3,500. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, E. Shatters, Shatters Church, Pa. Brick, 2½ stories, 28x30 feet, slate or asbestos shingle roof, hot water heating, electric lighting. Plans in progress.

Residence, Stony Creek, Pa., \$3,500. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner Floyd, Auchenbach, Reading, Pa. Brick and stucco, 2½ stories, 35x24 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking sub-bids.

Residence, Wyomissing, Pa., \$20,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Koller, 126 North Fifth street, Reading, Pa. Brick, 2½ stories, 50x50 feet, tile roof, hot water heating, gas and electric lighting, tile work, hardwood floors, dampproofing, composition floors. Architect, taking bids due September 26th. The following are figuring: Charles H. Schlegel, Mt. Penn, Pa.; Haupt & Rentz, Reading, Pa. Adam Spatz, Wernersville, Pa.; Charles Matz, Reading, Pa. Architect also taking sub-bids.

Residence, Monterey, Pa., \$5,000. Architect Wayne High, 416 Penn street, Reading, Pa. Hollow tile and stucco, 2½ stories, 40x20 feet, tile roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

School, Myerstown, Pa., \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Brick and stone trimmings, 2 stories, slag roof, slate blackboards (heating and electric work separate bids). Owners taking bids due October 2nd. Plans may be obtained from Architect upon deposit of check for \$10.00.

Lodge Building, Boyertown, Pa., \$25,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Oriole Lodge, Boyertown, Pa. Brick and terra cotta, 2½ stories, 48x100 feet, slag roof, steam heating, electric lighting, dampproofing. Architect taking bids. The following are figuring: Charles H. Schlegel, Mt. Penn, Pa., and Willoughby Herb, Boyertown, Pa.

Store Building (alt. and add.), Chester, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Milton H. Bickley, Chester, Pa. Brick, 3 stories, copper roof, electric lighting, hardwood floors, metal lath (heat reserved). Architects have received bids.

Residences (2), Pottsville, Pa. Architect, C. F. Schaefer, 1524 Chestnut street, Philadelphia. Owners, Mrs. G. L. Bright and C. R. Thatcher, Pottsville, Pa. Frame and plaster, 2½ stories, 20x35 feet, shingle roof, hot water heating, electric lighting, oak floors. Plans in progress.

Administration Building, Chapel and Residence, Pittsburgh, Pa. Architect, Thomas Hannah, 1712 Keenan Building, Pittsburgh, Pa. Owner, Western Theological Seminary, Pittsburgh, Pa. Brick, terra cotta, fireproof, 3 stories, 166x200 feet, slate roof, metal lath, cork floors metal doors and trimmings, metal sash and frames (heating and lighting reserved). Architect taking bids due September 30th. J. E. and A. L. Pennock, Land Title Building, Philadelphia, is figuring.

Opera House, Mahanoy City, Pa. Architect, J. D. Allen, 908 Chestnut street, Philadelphia. Owner, Kaier Grand Amusement Co., Mahanoy City, Pa. Brick and terra cotta, fireproof, 3 stories, 120x161 feet, slag roof, steam heating, metal lath, waterproofing, metal frames and sash Irwin & Leighton, 126 North Twelfth street, Philadelphia, only bidder.

Residence, Haverford, Pa., \$100,000. Architect, H. Brooks Price, 104 West Fortieth st., New York City. Owner, Dr. Archibald G. Thomson, Stock Exchange Building, Philadelphia. Hollow tile and stucco (fireproof, 3 stories, 115x67 feet and 57x27 feet, tile and copper roof, vapor heating, electric lighting, enameled bricks, metal lath, waterproofing, composition floors, concrete and hollow tile fireproofing, kalamein doors, 12 bath rooms. Architect taking bids due October 25th. The following is the complete list of bidders: J. S. Cornell & Son, Land Title Building; J. E. & A. L. Pennock, Land Title Building; George & Borst, 277 South Eleventh street; Pringle Borthwick, 8018 Germantown avenue; H. H. Burrell, 1204 Chancellor street; F. E. Wallace, 1210 Sansom street; Pomeroy Construction Co., 1609 Ransstead street, all of Philadelphia, and the Whitney Co., No. 1 Liberty street, New York City.

Boiler House (alt. and add.), Chester, Pa. Architect, Charles A. Blatchley, Drexel Building, Philadelphia. Owner, Aberfoyle Manufacturing Co., Chester, Pa. Brick and steel, 1 story, 35x35 feet, slag roof. Architect has received bids.

School Building, Coaldale, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, Board of Education, Coaldale, Pa. Brick, 2 stories and basement (8 class-

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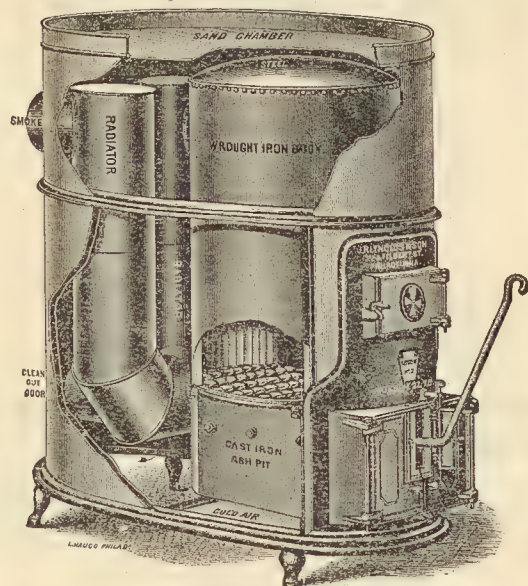
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rooms and auditorium), slag roof, electric lighting. Owner taking bids due September 26th. William R. Dougherty, 1610 Sansom street, Philadelphia; Gordon Nagle, Pottsville, Pa.; Andrew Breslin, Summit Hill, Pa., and Herman Riebe & Co., Lansford, Pa., are figuring.

Residence, Rose Valley, Pa., \$25,000. Architects, Price & McLanahan, 1418 Walnut st., Philadelphia. Owner, L. Stauffer Oliver, Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 80x61 feet, tile and composition roof, composition floors (heating and lighting reserved), waterproofing. Architects have received bids.

School, Quarryville, Pa., \$25,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg Pa. Owner, School Board, Quarryville, Pa. Brick, stone trimmings, 1 story, 74x117 feet, slag and slate roof, electric lighting, slate blackboards. Plans in progress.

Post Office, Carnegie, Pa. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and stone, 1 story, tin roof, steam heating, electric lighting. Owners taking bids due October 27th, at 3 P. M.

Church (alt. and add.), Simpson, Pa., \$20,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. Michael's R. C. Church, care of Rev. Valentine Matuszewski, Simpson, Pa. Brick, 1 story, 50x120 feet, slate roof, steam heating, electric lighting. Owners taking bids.

Brewery (add.), Scranton, Pa., \$20,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, Standard Brewing Co., Penn avenue and Walnut street, Scranton, Pa. Brick, 1 and 2 stories, 29x70 feet and 30x80 feet; consists of addition to brew house, stable and garage, slag and slate roofs, steam heating, electric lighting, concrete floors, Metal lath, waterproofing and damp-proofing, Architect taking bids.

Contagious Hospital, Scranton, Pa. Architect, Albert Hartman, People's Bank Building, Scranton, Pa. Owner, City of Scranton, City Hall, Scranton, Pa. Frame, 1 story, 97x32 feet, 97x45 feet, 52x38 feet, shingle roof, steam heating, electric lighting, metal lath. Owners taking bids.

Residence, Nanticoke, Pa. \$5,000. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, John A. Kearney, Nanticoke, Pa. Frame 2 stories, 40x44 feet, asbestos, shingle roof, hot air heating, gas and electric lighting, hardwood floors. Owner is taking bids.

Residence, Blytheburn, Pa., \$5,000. Architect, T. H. Atherton, Jr., Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. T. W. Thomas, People's Bank Building, Wilkes-Barre, Pa. Frame, 2 stories, 40x35 feet, shingle roof, electric lighting, heating undecided. Plans in progress.

Hospital, Wilkes-Barre, Pa., \$150,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner,

Wilkes-Barre Private Ward Hospital, Wilkes-Barre, Pa. Brick, steel and terra cotta, fire-proof, 4 stories, tile roof, steam heating, electric lighting, metal lath, elevator, waterproofing and dampproofing. Architects have received bids.

Hotel (alt. and add.), Wilkes-Barre, Pa., \$10,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Hotel Sterling, Wilkes-Barre, Pa. Consists of new ball-room, private dining rooms, changes in kitchen, etc., hardwood floors, electric lighting decorating. Plans about completed. Architects will take bids in two weeks.

Contagious Hospital, Wilkes-Barre, Pa., \$25,000. Architect, Thomas Podmore, Wilkes-Barre, Pa. Owner, City of Wilkes-Barre, Wilkes-Barre, Pa. Brick and concrete, 2 stories, slag roof, steam heating, electric lighting. Plans in progress.

Parochial Residence (alt. and add.), Kingston, Pa., \$10,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, St. Ignatius R. C. Church, Kingston, Pa. Brick and stucco, 3 stories, 38x12 feet, tile roof, steam heating, gas and electric lighting, tile work, hardwood floors, metal lath, waterproofing and dampproofing. Plans in progress. Architect will take bids in two weeks.

School, Warrior Run, Pa., \$30,000. Architects, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Board of Education, Warrior Run, Pa. Brick, 2 stories, 40x80x80 feet, slag roof, steam heating, electric lighting, metal ceilings, slate blackboards. Owners have received bids.

Residence, Haverford, Pa. Architects, Melior & Meigs, 205 South Juniper street, Philadelphia. Owner, Caspar W. Morris, Land Title Building, Philadelphia. Brick and plaster, 2½ stories, 71x90 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due October 1st. The following are figuring: Henry L. Brown, 1714 Sansom street; James H. Wells, Heed Building; Thomas Little & Sons, 1713 Moravian street; H. H. Burrell, 1204 Chancellor street; A. Whitehead, Inc., 1624 Latimer street, and William H. Carr, 6004 Germantown avenue, all of Philadelphia.

Residences (10), Elkins Park, Pa. Architect, Harry Linn, 5323 Wakefield street, Germantown. Owners, Elkins Park Co., Inc., 1829 Chestnut street, Philadelphia. Stone, frame and plaster, 2½ stories, 32x50 feet, tile, slate and shingle roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

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PENNSYLVANIA

Contracts Awarded

Factory (add.), Scranton, Pa., \$8,000. Architect, John J. Feeney, Coal Exchange Building, Scranton, Pa. Owner, M. F. Fadden, 1409 Mulberry street, Scranton, Pa. Brick and stucco, 2 stories, 60x55 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath. Contract awarded to Nay Aug Lumber Co., Prescott and Ridge Row, Scranton, Pa.

Residence, Scranton, Pa., \$7,000. Architect, Frank J. Miller, People's Bank Building, Scranton, Pa. Owner, Col. R. A. Phillips, 721 North Main street, Scranton, Pa. Frame, 2½ stories, 26x39 feet, slate roof, metal lath. Contract awarded to Arthur W. Marriott, Scranton, Pa.

Hospital Building, Hanover Township, Pa., \$51,115. Architect, private plans. Owner, State Homoeopathic Hospital for Insane, care Dr. Henry I. Klopp, Allentown, Pa. Brick, 2 stories, 36x84 feet, fireproof, slate and asbestos roof, steam heating, electric lighting, metal lath. Ochs Construction Co., Allentown, Pa., submitted the lowest bid.

Nurses' Home, Hanover Township, Pa., \$18,930. Architect, private plans. Owner, State Homoeopathic Hospital for Insane, care Dr. Henry I. Klopp, Allentown, Pa. Brick and frame, 3 stories, 42x28 feet, asbestos shingle roof, steam heating, electric lighting, metal lath. Contract awarded to Butz & Clader, Allentown, Pa.

High School (add.), Wilkes-Barre, Pa., \$60,000. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Board of Education, Wilkes-Barre, Pa. Brick and terra cotta, 2 stories, 124x121 feet, slate roof, warm air heating, electric lighting. Con-

tract awarded to Herman Mailander, 167 Barney street, Wilkes-Barre, Pa.

Mission Building, Lee Park, Pa., \$30,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Westminster Presbyterian Church, Douglass Mission, Lee Park, Pa. Brick and terra cotta, 1 and 2 stories, 50x110 feet, slate and slag roof, electric lighting, metal lath (heating reserved). Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre, Pa.

Parochial School (alt. and add.), Nanticoke, Pa., \$10,000. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, St. Stanislaus R. C. Church, Nanticoke, Pa. Brick, 2 stories, 32x69 feet, slag roof, steam heating, gas and electric lighting. Contract awarded to S. B. Price & Co., Nanticoke, Pa.

Garage, Scranton, Pa., \$20,000. Architect, J. S. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, Scranton Gas Co., 115 Wyoming avenue, Scranton, Pa. Brick and concrete, 1½ stories, slag roof, steam heating, electric lighting, waterproofing and dampproofing. Contract awarded to F. E. Sykes & Co., Pauli Building, Scranton, Pa.

Bank and Office Building, Scranton, Pa., \$200,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Union National Bank, W. L. Connell, President, Scranton, Pa. Brick, stone, terra cotta and steel, fireproof, 12 stories, 41x85 feet, tile roof, dampproofing and waterproofing, wrought iron treads, metal lath, steam heating, electric lighting, electric elevators (lockers and banking fixtures reserved). Contract awarded to Charles T. Wills, Inc., 286 Fifth avenue, New York City.

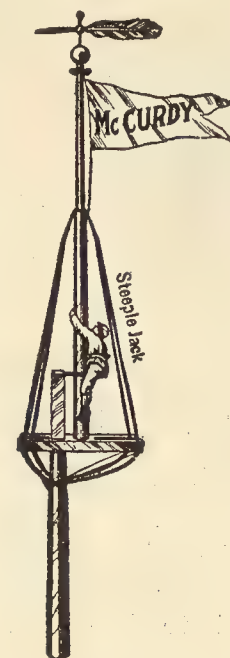
NEW JERSEY

Construction News

Residence, Princeton, N. J. Architects, Janssen & Abbott, Pittsburgh, Pa. Owner, B. S. Horne, Princeton, N. J. Hollow tile and plaster, 2½ stories, 58x154 feet, slate roof (heating and lighting reserved), hardwood and floors, metal lath, waterproofing and dampproofing. Architects taking bids due September 22nd. Stacy Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

Hotel, Atlantic City, N. J., \$500,000. Architects (associated), Vivian B. Smith and Earle M. Henderer, Sheen Building, Atlantic City, N. J. Owner, Rudolf Hotel Co., Atlantic City, N. J. Brick, steel and terra cotta, fireproof, 11 stories, 100x175 feet tile, and

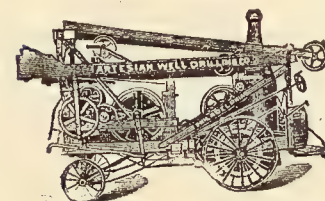
composition roof, metal lath, waterproofing and dampproofing, four elevators, heating and mechanical plant, electre work, kitchen and laundry. Architects taking revised bids due September 23rd. The following are figuring: James G. Doak & Co., Crozer Building; Doyle & Co., 1519 Sansom street; Alexander Chambley, 243 South Tenth street; Cramp & Co., Denckla Building; Freund-Seidenbach Co., Bulletin Building; Roydhouse-Arey Co., Fidelity Building; H. E. Baton, Twelfth and Sansom streets; W. Beaumont, Stephen Girard Building, all of Philadelphia, and the following of New York City, George A. Fuller Co., Thompson-Starrett Co., Luke Burke & Sons.



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Theatre, Trenton, N. J. Architect, F. R. Smith, Fifty-eighth and Spruce streets, Philadelphia. Owner, St. Regis Corporation, care of William J. Vernon, President, Stephen Girard Building. Brick, 1 story, 80x170 feet, slag roof, steam heating, electric lighting, metal lath. Owner taking bids due September 22nd. F. W. Van Loon, Denckla Building, Philadelphia, and W. J. & J. H. Morris, American Mechanics' Building, Trenton, N. J., are figuring.

Employees' Cottages (2), Morris Plains, N. J., \$20,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, New Jersey State Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Frame and stucco, 2 stories, 31x153 feet, slag roof, steam heating, electric lighting. Plans about completed. Owners will advertise for bids in a few days.

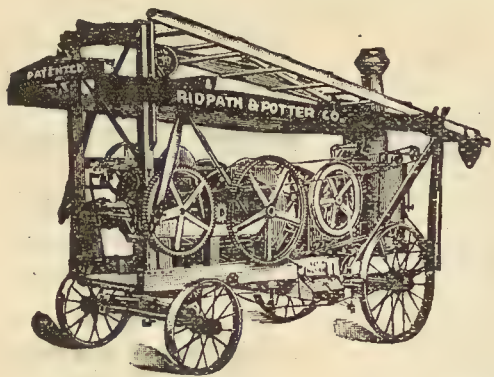
Twin Residence, Trenton, N. J., \$7,500. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner, Joseph Lupe, Trenton, N. J. Brick, 2 stories, 26x50 feet each, slag roof, gas lighting, probably hot air heating. Architect taking revised bids. Ed. D. LaRue, 53 South Hermitage street, Trenton, N. J., is figuring. (Only bidder.)

New Jersey

Contracts Awarded

Residence (completion), Haddonfield, N. J., \$12,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Lawrence Appleton, Haddonfield, N. J. Stone and frame, 2½ stories, 30x70 feet, shingle roof, hot air heating, electric lighting. Contract awarded to Thomas M. Seeds, Jr., 1207 Race street, Philadelphia.

Church, Raritan, N. J., \$25,000. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, R. C. Church, care of Father Ketterer, Raritan, N. J. Rough Tex brick and terra cotta, 1 story, 50x100 feet, slate roof, steam heating, gas and electric lighting, metal lath, dampproofing and



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waterproofing. Contract awarded to Hall Bros., Somerville, N. J.

Stores (3), Merchantville, N. J. Architect, W. G. LeConey, Moorestown, N. J. Owners, J. S. Collins & Sons, care of M. Magowan, Merchantville, N. J. Brick, 2 stories, 59x84 feet, composition roof, hot air heating, electric lighting. Contract awarded to Martin T. James, Merchantville, N. J.

Smelting Plant, Trenton, N. J. Architect, private plans. Owners, Trenton Smelting and Refining Co., Canal street, Trenton. Corrugated iron and steel, 1 story, 60x110 feet, electric light. Contract awarded to Newton A. K. Bugbee & Co., 206 East Hanover street, Trenton, N. J.

Dining Room (add.), Glen Gardner, N. J.,

\$10,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Brick, stucco and concrete, 2 stories, 30x50 feet, slag roof, steam heating, electric lighting. Contract awarded to Langan Engineering and Construction Co., 75 Montgomery street, Jersey City, N. J.

Infirmary, Glen Gardner, N. J., \$20,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Tuberculosis Sanitarium. Hollow tile and stucco, 2½ stories, 125x65 feet, slate roof, steam heating, electric lighting. Contract awarded to Langan Engineering and Construction Co., 75 Montgomery street, Jersey City, N. J.

MARYLAND Construction News

Armory, Elkton, Md. Architect, R. A. Whittingham, Newark, Del. Owner, State of Maryland, care of Mr. C. B. Finley, Elkton, Md. Stone and steel, 2 stories and basement, 63x146 feet, composition roof, heating and lighting reserved). Owner taking bids due September 28th. F. Roe Searing, Perry Building, Philadelphia, and James H. Wells, Heed Building, Philadelphia, are figuring.

Residence, Garrison avenue, Baltimore, Md., \$7,000. Architect, John C. Stalforth, Calvert Building, Baltimore, Md. Owner, Architect. Frame, 2½ stories, 32x34 feet, slate roof, steam heating, electric lighting. Owner taking bids. The following are figuring: E. G. Turner, 15 East Fayette street; Henry S. Ripple, 7 Clay street; C. W. Littleton & Son, 4313 Liberty Heights avenue; Charles Herbold & Son, 2968 West North avenue, all of Baltimore, Md.

Picture Theatre, North avenue, near Charles street, Baltimore, Md. Architect, not yet selected. Owner, Northern Amusement Co., care of H. W. Webb, Title Building, Baltimore, Md. Brick, 2 stories, slag roof, hot water heating, electric lighting, concrete floors. Architect will soon be selected.

Residence, Catonsville, Md., \$7,500. Architect, private plans. Owner, A. C. Montell, Cashier First National Bank, Catonsville, Md. Frame, 2½ stories, 32x40 feet, slate roof, steam heating, electric lighting. Plans in progress.

Residences (6), Thirty-eighth street, near York Road, Baltimore, Md., \$12,000. Architect, Abe Silverstein, 2206 East Baltimore st., Baltimore Md. Brick 2 stories, 14x20 feet each, slag roof, steam heating, electric lighting. Owner will sub-let all contracts.

Residences (4), 1509 to 1515 Hilton street, Baltimore, Md., \$10,000. Architect, Henry C. Glantz, 1217 West North avenue, Baltimore, Md. Owner, Hilton Land Corporation, care of Architect. Brick, 2 stories, 16x52 feet each, slate roof, hot air heating, electric lighting. Architect will sub-let all contracts.

Bakery (alt. and add.), 1612 to 1622 Barnes street, Baltimore, Md. Architect, John

Freund, Jr., 11 East Lexington street, Baltimore, Md. Owner, J. J. Rokos, on premises. Brick, 2 stories, slag roof, steam heating, electric lighting. Plans in progress.

Store (alt. and add.), 3105 West North avenue, Baltimore, Md. Architect, Charles H. Callis, 2055 Kennedy avenue, Baltimore, Md. Owner, George M. Doeberiner, 1407 East Baltimore avenue, Baltimore, Md. Brick, 2 stories, slag roof, steam heating, electric lighting, tile work. Plans in progress.

Residence, Merry Mount Road, Baltimore, Md. Architect, Oliver B. Wight, Munsey Munsey Building, Baltimore, Md. Owner, Leslie H. Peard, care of Hutzler Bros., Howard, near Lexington street, Baltimore, Md. Frame, 2½ stories, slate roof, hot water heating, electric lighting, tile work. Plans in progress.

Residence, Carlisle and Wilkens avenue, Baltimore, Md. Architect, Henry J. Tinley, St. Paul and Saratoga streets, Baltimore, Md. Owner, George E. I. Jams, care New Amsterdam Casualty Co., Equitable Building, Baltimore, Md. Frame, 2½ stories, slate roof, hot water heating, electric lighting. Plans in progress.

Residence (25), 3000 to 3048 Guilford avenue, Baltimore, Md., \$70,000. Architect, Jacob F. Gerwig, Equitable Building, Baltimore, Md. Owner, George A. Cook, Guilford avenue, near Twenty-ninth street, Baltimore, Md. Brick, 2 stories, 16x45 feet each, slate roof, steam heating, electric lighting. Plans in progress.

Warehouse, Frederick street, between Baltimore and Water streets, Baltimore, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owners, H. H. Taylor & Son, 11-13 South Gay street, Baltimore, Md. Brick, 2 stories, slag roof, electric lighting, elevator. Plans in progress.

Dairy and Ice Cream Factory, Twenty-ninth street and Remington avenue, Baltimore, Md., \$750,000. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Md. Owner, City Dairy Company, Asa B. Gardiner, President, 520 North Calvert street, Baltimore, Md. Reinforced concrete and stucco exterior, 1

and 2 stories, main building, 320x103 feet; garage and repair shop, 200x63 feet; power house, 105x80 feet; stables, 320x102 feet; red tile roof, steam heating, electric lighting, elevators, metal lath, dampproofing and waterproofing, enameled bricks, tile and marble work, 1,000-ton ice machine, complete power plant. Plans in progress. Architect will take bids in about 2 months.

Armory, Elkton, Md., Architect, R. A. Whittingham, Newark, Del. Owner, State of Maryland, care C. B. Finley, Elkton, Md. Stone, brick and steel, 2 stories, 63x146 feet, composition roof, composition floors (heating and electric work separate bids). Owners taking bids due September 28th. The following are figuring: James H. Wells, Heed Building; F. Roe Searing, Perry Building; Edward Fay & Son, 2 South Mole street; H. E. Baton, Twelfth and Sansom streets, all of Philadelphia, Pa.; Cole Bros., Inc., 16 St. Paul street; J. L. Robinson Construction Co., Knickerbocker Building; Charles Herbold & Son, 2768 West North avenue; Singer-Pentz Co., Equitable Building, all of Baltimore, Md.; E. W. Minter & Co., 115 Broadway; Conners Bros. Co., 17 West Forty-second street, both of New York City; Union Stone Co., 13 East Eighth street, and W. D. Haddock & Co., 804 Orange street, Wilmington, Del.; J. C. Willis, Newark, Del.; J. C. Willis, Newark, Del.; W. S. & A. M. Culp, Chestertown, Md.

Residence, Guilford, Md. Architect, E. L. Palmer, Roland Park, Md. Owner's name withheld. Brick, 3 stories, slate roof, steam heating, electric lighting, tile work, hardwood floors. Architect taking bids, due September 28th. The following are figuring: Cowan Building Co., 106 West Madison street; G. Walter Torell, Eutaw and Dolphin streets; Gladfelter & Chambers, 2072 Woodberry avenue, all of Baltimore, Md., and Roland Park Co., Roland Park, Md.

Factory and Warehouse, Fleet street, near Central avenue, Baltimore, Md. Architect, private plans. Owners, George Harryman & Brother, Spring and Fleet streets, Baltimore. Lessees, Loose-Wiles Biscuit Co., 514 East Lombard street, Baltimore. Brick, 1 story, slag roof, steam heating, electric lighting. Owners taking sub-bids.

Residences (24), 3200 to 3246 Abell avenue, Baltimore, Md., \$50,000. Architect, H. E. Storek, Winton avenue, Baltimore, Md. Owner, E. J. Storek, Gunther Building, Baltimore. Brick, 2 stories, slag roof, steam heating, electric lighting. Owner will sub-let all contracts.

The One That Gets the Trade.

The constant dropping water wears away the hardest stone,
The constant chewing bulldog masticates the toughest bone,
The constant cooing lover takes away the blushing maid,
And the constant advertiser is the one that takes the trade.

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

MORE OR LESS PERSONAL.

J. T. Stackhouse, William Smith and Terrence Flood have formed a partnership under the name of Stackhouse & Smith, to carry on the business of building construction. Offices and shop have been opened at 3826 Hamilton street. Mr. Stackhouse and Mr. Smith were formerly with James G. Doak & Co.

MARYLAND

Contracts Awarded

Church, Kenwood avenue and O'Donnell streets, Baltimore, Md., \$125,000. Architect, Bruno Wozny, Springfield, Mass. Owner, St. Casimir's R. C. Church, Baltimore, Md. Stone, 1 story, slate roof, steam heating, electric lighting, composition floors. Contract awarded to Fidelity Construction Co., 1709 West Lexington street, Baltimore, Md.

Church, Elwood and Baltimore streets, Baltimore, Md., \$10,000. Architect, private plans. Owner Congregation, care of Rev. W. R. Strietelmeier, Baltimore, Md. Brick, stone trimmings, 1 story, slate roof, steam heating, electric lighting. Contract awarded to John H. Kelly, 1308 East Biddle street, Baltimore, Md.

School (add.), Frostburg, Md., \$10,000. Architect, George F. Sandsbury, Cumberland, Md. Owner, School Board of Allegheny Co., Frostburg, Md. Brick, 2 stories, slate roof, steam heating, electric lighting, slate blackboards. Contract awarded to George A. Bowman, Cumberland, Md.

Garage, Vine street, near Monroe street, Baltimore, Md. Architect, F. E. Beall, 306 St. Paul street, Baltimore, Md. Owner, George A. Gerbig, Baltimore and Payson streets,

Baltimore, Md. Brick, 1 story, 14x38 feet, slag roof, electric lighting, concrete floors. Contract awarded to F. W. Felte, care of owner.

Building (alt. and add.), 1319 Linden avenue, Baltimore, Md. Architect, George N. McKenzie, Keyser Building, Baltimore, Md. Owner, J. P. W. McNeal, on premises. Brick, 3 stories, steam heating, electric lighting, tile work. Contract awarded to Samuel Spreat, 203 North Pine street, Baltimore, Md.

Power House, Towson, Md., \$35,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owner, Maryland State Normal School, Towson, Md. Brick and concrete and steel, fireproof, 2 stories, composition roof, electric lighting, concrete floors, structural slate. Contract awarded to Sweetser Linthicum, 217 West Paul street, Baltimore, Md.

Warehouse, 601 Water street, Baltimore, Md. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owners, Misses Anna B. and Emma B. Instbach, care of architects. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to Henry L. Maas, 119 Ensor street, Baltimore, Md.

Washington, D. C. Owner, Washington and Lee University, care of Prof. J. W. H. Pollard, Lexington, Va. Brick, limestone and concrete, 2 stories, 220x83 feet, gravel roof, steam heating electric lighting, safety treads, waterproofing metal lath, structural slate. Owners taking bids due October 5th. James G. Doak & Co., Crozer Building, are figuring, in addition to those previously reported.

Miscellaneous

Contracts Awarded

Church, Wilmington, Del., \$40,000. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, Hanover Presbyterian Church, Wilmington, Del. Stone, 1 story, 90x150 feet, slate roof, electric lighting, steam heating, tile work, metal lath, dampproofing and waterproofing. Contract awarded to W. D. Haddock & Co. 804 Orange street, Wilmington, Del.

Residence (alt. and add.), Gordon Heights, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owner, C. S. Young, Gordon Heights, Del. Stone and plaster, 2½ stories, slate roof, electric lighting, hardwood floors, tile work. Contract awarded W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

Miscellaneous Construction News

Residences (80), Port Washington Park, Long Island, N. Y., \$5,000 each. Architects, Bell & Mercer, 37 South Sixteenth street, Philadelphia. Owner, Port Washington Realty Co., Long Island, N. Y. Frame, 2½ stories, 28x30 feet each, shingle roof, steam and hot water heating, gas and electric lighting, hardwood floors, metal lath. Architects and owners taking sub-bids.

Residence, Port Washington, Long Island, New York, \$8,500. Architects, Bell & Mercer, 37 South Sixteenth street, Philadelphia. Owner, Morgan G. Wake, 42 Broadway, New York City. Frame 1½ stories, 40x60 feet, shingle roof, hot water heating, electric lighting, oak floors. Plans in progress.

Church, Roanoke Rapids, N. C. Architects, Charles Bolton & Sons, Witherspoon Building, Philadelphia. Owner, First Presbyterian Church, Roanoke Rapids, N. C. Stone, 1 story, 70x70 feet, slate roof, steam heating, electric lighting. Plans in progress. Owner will take bids.

Apartment House, Detroit, Mich. Architect, E. Dunlap, Detroit, Mich. Brick, fireproof, 9 stories, 67x190 feet, slag roof, steam heating, electric lighting, oak floors, metal lath, waterproofing, elevators. Architect has received bids.

Gymnasium, Lexington, Va. Architects, Flournoy & Flournoy, Wilkins Building, Washington, D. C. Owner, Washington & Lee University, care of Prof. J. W. H. Pollard, Lexington, Va. Brick, limestone and concrete, 2 stories, 220x83 feet, gravel roof, steam heating, electric lighting, safety treads, waterproofing, metal lath, structural slate. Owners taking bids due October 5th. James H. Wells, Heed Building, Philadelphia, is figuring.

Post Office, Danbury, Conn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone and brick, 2 stories, composition

roof, steam heating, electric lighting. Owner taking bids due November 4th, at 3 P. M.

Post Office, Stamford, Conn., Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Stone, brick, marble and terra cotta, 1 story, tile and copper roof, steam heating, electric lighting. Owner taking bids due November 4th, at 3 P. M.

Residences (9) and Store, Wilmington, Del., \$20,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 16x40 feet and 25x72 feet each, slag roof, hot air heating, gas and electric lighting, water proofing, metal lath. Architect will take sub-bids in a few days.

Apartment House, Wilmington, Del., \$25,000. Architect Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. 3 stories, 40x90 feet, slag roof, hot water heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and dampproofing. Architect will take bids October 15th.

Residence, Chester, Pa., \$3,500. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 17x38 feet, slate roof, hot air heating, gas and electric lighting, hardwood floors. Architect taking bids due September 25th. H. Louis Morris, 312 West Seventh street, Chester, Pa., and Charles H. Tindall & Sons, 614 Tatnall street, Wilmington, Del., are figuring.

Hotel (alt. and add.), Wilmington, Del., \$3,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wesley Taylor, Fourth and Adams streets, Wilmington, Del. Brick, stone trimmings, 3 stories, 30x70 feet, tile roof, gas and electric lighting, tile work metal lath. Architect ready for bids.

Gymnasium, Lexington, Va. Architects, Flournoy & Flournoy, Wilkins Building,

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

Treasury Department, Office of the Supervising Architect, Washington, D. C., September 12, 1914.—Sealed proposals will be received in this office until 3 o'clock P. M., October 14, 1914, and then opened, for the construction and installation of new dock piers and ferry rack, bridge, etc., at the United States Barge Office, New York City. Drawings and specifications may be obtained at the Office of the Chief Engineer and Superintendent, etc., United States Public Buildings, Room 727, Custom House Building, New York City, or at this office, at the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

Treasury Department, Supervising Architect's Office, Washington, D. C., September 15, 1914.—Sealed proposals will be opened in this office at 3 P. M., October 27, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States Post Office, at Carnegie, Pa. The building is one story and basement; ground area, 3,565 square feet; brick facing; tin roof; partial fireproof construction. Drawings and specifications may be obtained from the custodian of site at Carnegie, Pa., or at this office, in the discretion of the Supervising Architect, O. Wenderoth, Supervising Architect.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

C. & R. Ferguson (O), Sixtieth street and Baltimore avenue. Cost, \$16,00. Seven dwellings, brick, 2 stories, 16x29 feet, 1200 to 1216 South Sixtieth street. Cost, \$2,400. One dwelling. Cost, \$6,000. Two dwellings.

J. H. Treffinger (O), 1339 Colwyn street. W. J. Stevens (C), Wyncote, Pa. Cost, \$5,500. Residence, stone, 2 stories, 24x29 feet, Cheltenham avenue and Limekiln pike.

Mrs. R. Oakford (O), Logan, Philadelphia. F. & L. Davis (C), Thirteenth and Nedro sts. Cost, \$4,000. Dwelling, brick, 3 stories, 26x34 feet, Oak Lane, Philadelphia.

L. K. Stifer (O), 4250 North Broad street. Cost, \$3,200. Dwelling, brick, 3 stories, 15x43 feet, Park avenue and Bristol street.

Calvary Church (O), Forty-first street and Mantua avenue. Alexander Chambley (C), 243 South Tenth street. Cost, \$1,500. Church, stone, 1 story, 43x75 feet, Forty-first street and Mantua avenue.

C. West & Co. (O), 1034 Herbert street. Cost, \$7,400. Two dwellings, brick, 2 stories, 16x52 feet, 1201-1203 Allengrove street.

James McCrea (O), 1313 Arch street. Cost, \$20,000. Warehouse, brick, 6 stories, 30x64 feet, 121-133 North Water street.

C. P. Green (O), 3422 G street. Cost, \$5,600. Four dwellings, brick, 16x28 feet, Venango and Wittie streets. Cost, \$1,500. Store and dwelling.

B. Isenberg (O), 3872 Poplar street. Cost, \$1,300. Dwelling, brick, 2 stories, 16x34 feet. Keystone and Van Kirk streets. Cost, \$1,300. Dwelling. Cost, \$3,600. Three dwellings.

Lewis Ahlers (O), 4433 Salmon street. Cost, \$5,000. Three dwellings, brick, 2 stories, 16x28 feet, Richmond and Lefevre streets. Cost, \$1,800. One dwelling.

E. P. Toesch (O), 2147 North Fifth street. F. K. Stahl (C), 2713 North Park avenue. Cost, \$4,500. Three dwellings, brick, 2 stories, 14x29 feet, 2140 to 44 North Orkney street. Cost, \$5,000. Two dwellings.

Jake Shechter (O), 532 Watkins street. Cost, \$5,000. Two dwellings, brick, 3 stories, 15x30 feet, 74-42 Morris street.

A. E. Krebs (O), 3910 North Broad street. John Krebs (C), 3853 Germantown avenue. Cost, \$3,500. Dwelling, brick, 3 stories, 16x30 feet, Broad and Kerbaugh streets.

J. G. Fotheringham (O), 3367 Frankford avenue. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x50 feet, 4683 Asylum Pike.

Alterations and Additions

H. K. Wampole & Co. (O), 432 Fairmount avenue. Stewart Bros. (C), 2528 North Orkney street. Cost, \$3,000. Shipping Building, 432 Fairmount avenue.

Frank DeLong (O), Thirteenth and Chestnut streets. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$33,500. Store and offices, 1529 Chestnut street.

Wendell & Smith (O), Overbrook, Philadelphia. M. W. Young (C), Overbrook, Pa. Cost, \$2,400. Garage, 6457 Woodbine avenue.

Joseph Schmitz (O), 3213 Frankford avenue. Barnes Bros. (C), 2080 East Willard street. Cost, \$6,000. Manufacturing building, Lackawanna and Womrath streets.

Mrs. E. B. Carter (O), 533 Hortter street. W. J. Stevens (C), Wyncote, Pa. Cost, \$900. Garage, 533 West Hortter street.

J. B. Oblinger (O), Lancaster, Pa. Thayer & Co. (C), 1233 Ludlow street. Cost, \$2,500. Manufacturing building, 435 Market street.

Pennsylvania Railroad Co. (O), Broad Street Station. Keystone State Construction Co. (C), Pennsylvania Building. Cost, \$65,000. Station, Broad street and Glenwood avenue.

I. Schlichter (O), 3836 Frankford avenue. J. A. Hand (C), 8029 Frankford avenue. Cost, \$2,500. Greenhouse, 3836 Frankford avenue.

Joseph Zang (O), Thirty-seventh street and Fairmount avenue. J. B. MacDowell & Sons (C), 1927 Montgomery avenue. Cost, \$2,000. Store and dwelling, Twenty-seventh street and Fairmount avenue.

Drexel Building (O), Fifth and Chestnut streets. George & Borst (C), 277 South Eleventh street. Cost, \$2,800. Office building, Fifth and Chestnut streets.

Charles Dusenber (O), 282 South Fifty-second street. Cost, 2,505. Store, 282 South Fifty-second street. F. W. Allison & Co. (C), 1710 Rittenhouse street.

J. R. Rabinovitch (O), 55 North Third st. M. Golden (C), 3223 Arlington street. Cost,

\$1,000. Manufacturing building, 55 North Third street.

C. Vetter (O), 429 Poplar street. Burkholder & Robinson (C), 5918 North Ninth st. Cost, \$800. Dwelling, 5929 North Twelfth st.

A. E. Brown (O), 5208 Market street. J. P. Fallon (C), 6036 Osage avenue. Cost, \$2,000. Theatre, 5208 Market street.

H. Loebz (O), 33 Master street. Cost, \$2,000. Storage, 33 Master street.

E. T. Stotesbury (O), Twentieth and Spruce streets. M. Easterbrook (C), 146 North Fourth street. Cost, \$1,500. Residence, 126 South Twentieth street.

E. G. Budd Manufacturing Co. (O), I and Ontario streets. Cost, \$1,800. Shop, I and Ontario streets.

City of Philadelphia (O), City Hall. Eugene Tourison (C), Mutual Life Building. Cost, \$3,000. Fire house, 808 Morris street.

H. C. Dahl (O), 231 South Eighth street. Cost, \$1,000. Factory, 233 South Third street.

Estate of J. B. Stetson (O), Fourth street and Montgomery avenue. F. L. Hoover & Sons (C), 1023 Wood street. Cost, \$2,400. Store, 1225 Sansom street.

Pennsylvania Railroad Co. (O), Broad Street Station. Armstrong & Latta (C), Land Title Building. Cost, \$7,000. Baggage Room, Fifteenth and Market streets.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

CHOICE OF FIREPLACE DESIGN IN A HOUSE.

It goes without saying that the fireplace adds a charm to a home which makes it more cheerful and attractive. The number of fireplaces being installed is growing, and many new styles with and without mantels in beautiful designs have been used with artistic effect. This is true not only of city homes, but builders of town, village and country homes as well as hotels, churches and other public builders are making use of decorative fireplaces.

The use of brick in fireplace construction permits the erection of a design which fits in with the general scheme of the room. Any design may be modified to secure a maximum of decorative effect. For instance, a simple fireplace of plain construction would be a suitable one for an office, a large one in keeping with the size of a rotunda for a hotel; an inglenook for a den and a variety of sitting rooms, dining room and parlors with pillar effects, square mantel or arch construction, built of plain brick or fancy shaped terra cotta.

Fireplaces built of brick are not of any particular size, but may be arranged to suit the room for which they are intended. The elasticity of brick construction allows any size to be easily secured. An experienced workman can easily erect the fireplace. The addition of elaborate decorations does not add very much to the work of construction when brick is the building material. The workman must, of course, have a good knowledge of joints, since sometimes a narrow joint is desirable and at other times a very heavy joint.

The top of a fireplace may be varied to suit the ideas of the builder or the house owner. For instance, a decorative top of brick may be used or a wooden shelf to harmonize with the brick construction. For a den a bookcase constructed either at the side or over the fireplace, or both, is often desirable and good. One of the chief objects for the builder to bear in mind in any of these arrangements is symmetry, for with a simple, appropriate and symmetrical design in keeping with the surroundings, the fireplace becomes a harmonious, attractive and useful piece of house furnishing.

TWELVE THINGS TO REMEMBER.

- The value of time.
- The virtue of patience.
- The success of perseverance.
- The pleasure of working.
- The dignity of simplicity.
- The worth of character.
- The power of kindness.
- The influence of example.
- The obligation of duty.
- The wisdom of economy.
- The improvement of talent.
- The joy of originating.

"Do what you are paid to do—and then some—it's the then-some that gets your salary raised."—James B. Miller.

HOW WE CAN ENLIVEN OUR ARCHITECTURE

Is there any valid reason for the dullness that pervades the outer and inner parts of our domestic architecture?

In most sections of the United States brilliant, unclouded days are in a large majority; only now and then is the sun obscured. Winter itself presents a smiling countenance and the mantle of snow merely serves to bring into life a thousand colors unobserved before, colors of shrubs and underbrush, woodlands and hills, not to speak of those that change from hour to hour upon the snow itself. As for our autumn, nature seems to have given herself leave to execute a very orgy of color with the aid of painted leaves of every imaginable hue. Bird and beast wear coats of many colors, and the very fish and insects, the moth and butterflies, seem to revel in brilliant appointments fitted to their colorful surroundings.

Only man is slow to catch up with the procession. He builds himself huts and log houses, frame and brick dwellings, towns and cities as void as possible of anything that suggests gayety, though he has every incentive to happiness in sunshine and beauty of landscape, forests glorying in notes that glow like fire, skies and rivers always presenting some new combination of colors to his dull and unobservant eyes.

This is bad enough when one considers isolated buildings in the country, but when they are crowded together in towns the result is depressing in the extreme. What can be more promotive of pessimism than our ordinary American town, laid out commonly as a rigid gridiron of streets and avenues. These are fringed with buildings, hard as to roofs and corners, hopeless in plumlines, and, to crown all, dull and dismal in color! If public opinion would only allow a lavish use of paint which might disguise to some extent the ugliness of forms! But no. A heart-breaking uniformity even there is exacted by the tyranny of neighborhoods.

Brick is a material for building which has great possibilities for color effects when wisely varied and adjusted; but it has been stupidly used to accentuate the dreariness of towns. Concrete seems to open new and joyful vistas, but the results show plainly that only the rare housebuilder, the unusually gifted architect has known how to take advantage of the many ways of coloring and of encrusting it with brick and tile in order to make head against the crushing uniformity of our streets and suburban sections and put a little color and life into the townscape.

A good deal of iron is used about city houses in the way of grills and balconies, balusters and fences, and as iron has to be painted, a first coat of red paint is laid on. The next time you pass a building in its finishing stage observe what a delightful effect this red painted iron work presents. Pass the same way a few days later, and it is all gone, smothered under dismal black paint. Is there any reason why the necessary second

coat should not be red and the gay and cheering color effect preserved? It would be easy to find a durable enamel red to stand the weather.

But as to town facades there are plenty of kilns turning out architectural tiling to meet any demand, if architects who understand color could persuade their clients to give them a free hand in making dwellings and office buildings cheerful in tone and agreeable to the eye.

Tiling is peculiarly fitted to smoke-beset communities, because soot does not lodge so readily on these comparatively smooth surfaces and is more easily removed. It has always been a marvel that cities like London, Chicago and Pittsburgh did not turn long ago to some such means in order to counteract the dismal effect of sooty housefronts. New York is getting smokier every year, in spite of laws against the use of soft coal. New York should set the example of color in architecture, and as a beginning urge the Art Commission to insist that the public edifices, at any rate, which come under its notice before they are built, shall have this quality of cheerfulness included in their planning.

We have great structures like the Municipal, the Pennsylvania Railway Station, the Metropolitan Museum and the Public Library which grievously demand attention in this regard. Why are they so sombre? What will they be fifty years hence, if when new they have such a lugubrious air? In some of them it is not too late to introduce color by marble inlays, as they used to do so effectively in Venice, or panels of encaustic tiles, or roofs of a different positive enjoyable hue. The grand entrance hall of the Public Library is cold as ice because nothing has been done to vivify the spaces which the architects arranged for some such purpose. Why should not the great panels on the stairways be hung with rich tapestries setting forth the picturesque history of the carved and painted word, the evolution of the alphabet? Perhaps we could find nothing quite so appropriate to that cool marble interior as the loose-hanging figured tapestry. Outer walls might be treated in a dozen different ways to obtain the desired effect.

Notwithstanding all that has been done in the way of tiles to decorate the interior and exterior, the fact remains that our architects are not taking the advantage they might of this material to enrich the townscape and provide sumptuous and lasting color schemes for churches and capitols, hotels and libraries, railway stations, public and private houses.

The color notes from smooth or dull or unevenly surfaced products of the kiln have been so far mild enough, discreet enough, well enough suited to the timidity one meets when the question of color comes up. Even these anaemic hues are often set aside for drab or dead white walls unrelieved by anything save windows in monotonous rows whose

deadly iteration numbs the mind and steepens the soul in gloom. By the deft introduction of tiles in smooth or dull glazes much might be done to render tall buildings less repellent, and to some degree disguise the enforced but ghastly regularity of their fenestration.

There are, however, bolder workers in the field for urban architecture. At the exhibition of the Architectural League, one of the best in recent years, glazes were shown of great promise in a large mural panel, or tablet, not composed of small cubes like mosaic, nor of tiles in formal squares, but of irregular pieces of faience. The effect of the joining suggests the so-called Cyclopien masonry of the early Greek period.

The theme chosen is that of Cacique-priests in adoration of their gods. Worship of the old gods of Incas, Mayas, and other culture-tribes of South and Central America and Mexico may well be taken for compositions of great boldness and beauty, and particularly are they suited to tiles in relief. We may have here the beginning of a national style of decoration for large buildings.

Unlike much of the tile work made to-day, this design is carried out in singularly rich and harmonious tones. The artist has been inspired by the strong feeling for simple broad color masses found in decorations that survive from the pagan past, but found also in textile and fictile work of modern Indians. The groundwork is a warm yellow.

Now the atmosphere of our cities, charged with chemicals, works banefully on ordinary pigments; but tiles with a well baked body and firm glaze withstand these acids as they do heat and cold, sunlight and frost. They give the least possible lodgment to the grime that floats in the air.

Tiling can be varied in tones to prevent a too solid color; it can be modeled in relief to obtain effects of shade. Chance alterations in tone, or hazards of the kiln allow the architect a gamut of color vibrations on which to play the changes. Such examples of American tile-work are of happy augury, for they must mean that architects can obtain soft or bold effects of color if they want them. Perhaps through this material we shall have presently an architecture better suited to our brilliant atmosphere, our autumn woodlands, than the doleful kind we inherit from Europe. In the hands of architects who have some feeling for color we should have rich and varied decorations for school houses and city hall, hospital and public library, club house and theatre, market and museum. We should demand to be at least as favored in this way as were the men of the middle ages and the ancients of Greece, Assyria and Egypt when they built their temples and palaces.

After all, we must feel that such results as we have could not obtain in so wide and general a measure, were it not that the pleasure felt by men for beautiful colors has become blunted; were it not that men of our race are singularly defective on that side. Insects, birds and animals betray a love of color. Mankind of the West European stocks

(Continued on page 618.)

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Irving Dillon.....Editor

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(Organized 1857)

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Editorial Comment

A committee representing Philadelphia Chapter, of the American Institute of Architects, has been in conference for some time with another committee representing the Master Builders' Exchanges at Philadelphia, in an effort to so modify, amend and otherwise make over the form of specifications commonly in use as to render documents of the kind fair and equitable to all concerned. This question of specifications is not a new one, as every builder knows. Somewhere back in the dawn of civilization the first architect drew up the first set of building specifications. Being a cautious "cuss," this prehistoric maker of plans dropped in, here and there, certain provisional and conditional clauses so phrased as to put it up to the other fellow in case anything went wrong. Many things have happened since—age has succeeded age,—civilization has made giant strides,—cities and States and empires have come and gone—that original specification alone survives—changeless, inexorable, eternal.

Find an architect where you will, be it in Kanschotka, Timbuctoo, Kankakee or Weehauken, you will find somewhere within easy reach a copy of these preadante specifications. If the joint committees representing builder and architect can find a way to reduce the form of specification in common use to terms of common sense and common equality, its members will have rendered a signal service to everybody concerned. We can conceive of but one thing within the span of human ingenuity more unreasonable than the average specification, and that is the average builder's bill of "extras." To do away with the one will be to eliminate the other. Here's hoping the Exchange Committee and its professional conferrees may find a way to get the specification game on something resembling a clean, business basis.

* * *

Mr. George Leland Hunter has an entertaining paper in the current number of "Arts and Decoration" on "The Decorative Styles of the Gothic Period." So much interest is shown in the Gothic style by designers of the first class as applied to interior decoration, as well as to exterior embellishment, that we find ourselves unable to refrain from quoting certain of Mr. Hunter's splendidly informed paragraphs.

"Gothic is primarily a French style," writes Mr. Hunter, "and hence known in Mediaeval Germany as opus francigenum. It was born in Northern France in the twelfth century, and one of the first great masterpieces was the cathedral of Notre Dame in Paris. It flourished not only in France, but also in Flanders, England and Germany for three centuries, the thirteenth, fourteenth and fifteenth, and to some extent in Italy during the thirteenth and fourteenth. But as far as furniture and the decoration of domestic interiors is concerned, it reached its highest

development in the fifteenth century. Especially was its development important in the territory controlled by the Dukes of Burgundy—not only the Duchy of Burgundy, but also the Netherlands, and a strip of Northern France that included such prosperous cities as Arras and Lille. The Court of the Burgundian Dukes, Philip the Good (1419-1467), and of his son Charles the Bold (1467-1477), was the richest and most fashionable in the world, and for them were made by their own subjects, the richest costumes, the most beautiful tapestries, the finest furniture, the most brilliant paintings, and the most exquisite illuminated manuscripts. The King of France they despised as an inferior, and the King of England and the Emperor they met on equal terms. After the defeat and death of Charles the Bold in 1477, and the consequent annihilation of the Burgundian State, there ensued a splendid afflorescence of the late Gothic and Gothic-Renaissance decorative arts in Flanders under the suzerainty of the Emperor, and in France under Charles VIII (1483-1289) and Louis XII (1198-1515). Consequently it is not strange that nearly all of the Gothic furniture and tapestries that have survived, date from the fifteenth century, or the first few years of the sixteenth. From these, with the aid of paintings and manuscript illustrations, and contemporary written descriptions, we can form a fairly definite picture of what a Gothic interior of the fifteenth century was like.

What a Burgundian banqueting hall of the fifteenth century looked like can be seen from Olivier de la Marche's description of the one built for the wedding at Bruges in 1468 of Charles the Boere to Margaret of York. The hall was 60 feet high, 70 long and 40 wide. It was hung with famous tapestries, one set of which pictured Jason's Quest of the Golden Fleece. The ceiling was richly painted in polychrome and heraldic banners and pennants hung everywhere. The chandeliers were in the form of castles surrounded by forests and mountains, with revolving paths on which serpents, dragons and other monstrous animals seemed to roam in search of prey, spouting forth jets of flame that were reflected in huge mirrors, so arranged as to catch and multiply the rays. In the center of the hall was a huge lozenge-shaped buffet hung with tapestries, above which rose steps and shelves on which was displayed a wonderful wealth of gold and silver vessels, many of them garnished with precious stones. The table of honor was on a platform at the head of the hall, while two other tables occupied the full length of the sides.

Alienor of Poitiers tells us that the bed chamber of Isabella of Bourbon, wife of Charles the Bold, was very large and contained two beds about five feet apart. Above them was a large canopy of green damask, with curtains of satin that could be drawn

to completely screen the beds. On each bed was a counterpane of ermine with violet lining. The show feature of the room was the dresser, "with four beautiful shelves, each covered with a cloth; the said dresser and the shelves filled with vessels of crystal, garnished with gold and precious stones, and some of fine gold."

In the corner, near the dresser, was a small low table with cups and saucers in which refreshing drinks were served to callers after they had first received a dragee (bonbon) from the drageoir that stood on the dresser. Alienor says there should always be in a lady's room for her own use, a chair with a back, near the head of the bed, and that this chair should be covered with silk or velvet, for velvet is the most honorable covering, no matter what color; and that near the chair should be placed a low bench or stool spread with a tapestry and silk cushions, for visitors.

A less pretentious bedroom appears in a late Gothic painting preserved at the Louvre. The walls are bare, the floor tiled, and the ceiling beamed. The windows are of leaded glass, and there are inside shutters, each with three leaves to fold back out of the way. The chimney piece is high with shelves on each side. Before it stands a settee with pierced ends, three red sofa-pillows, and front below the seat consisting of four carved panels. The bed has a red spread, bolster, valance, curtains, and tester. Near the head of the bed is a Gothic chair with linenfold carved panels on sides and back, and a dresser or commode similarly carved. On the commode stand a pitcher and a bowl of brass, while from the ceiling hangs a brass chandelier with six arms grotesquely ornamented, which can be raised or lowered by means of a pulley.

In many Gothic apartments the scantiness of moveable furniture was made for by the abundance of furniture built-in—window seats, cupboards, closets with shelves and drawers, even beds and benches.

The primary and fundamental piece of furniture in Gothic households of every degree was the chest that was a storehouse for clothes, jewels, draperies and linen; served as trunk on journeys; with short legs added and a back, became a settee; with long legs and front door instead of lid, became a dresser or buffet or cupboard or whatever the local name might be; doubled chest on chest, became a cabinet or armoire. Sometimes it was even used as a bed, with or without the addition of short legs, and head and foot boards.

Most Gothic dining tables were plain boards resting on movable trestles, that could be folded up and packed in carts for traveling. The guests sat on one side only, leaving the other side free for service and for view of the mummers and minstrels who entertained the company during the repast.

Even in the fifteenth century and Burgundian palaces the supply of furniture, though large and luxurious compared with that of other countries and of preceding centuries, was scanty from the modern point of view or even from that of the Renaissance. In

order that Philip the Good might be properly housed at Rheims, where he was to attend the coronation of the French King, Louis XI, in 1461, "a great number of wagons draped with cloth of gold and hung with banners, carried the Duke's tapestries, furniture, silver and other table service, and the utensils for the kitchen."

The characteristic wall hanging of the Gothic Ages, particularly of the fourteenth and fifteenth centuries, was tapestry, of which the chief centre of manufacture was Arras from which are derived the Italian and English names for woven pictures, arazzi and arras. Painted clothes, called counterfeit arras, were also used by those who felt they could not afford the real thing.

* * *

And while we are on this theme of furnishings we are reminded of a well-considered article in a recent number of "House and Garden" on "Fashions in Furniture." You may be surprised to learn that among a class of people endowed with more means than taste, houses are furnished not according to the dictates of atmosphere, or of color feeling, or of compatibility with the exterior setting, but according to the reigning mode, writes "House and Garden:"

"In the elaborate showrooms of a great furnishing and decorating house, soft-spoken salesman was just completing a sale. This is part of what he said: 'Oh, dear, no, madam, the Georgian style is passe; none of the best people are buying it. But Jacobean, that's all the thing this year! Indeed, one might say it was very fashionable at present.'

The prospective purchaser became quite convinced at this. Her order was Jacobean. To the person who overheard this conversation it sounded reminiscent. It recalled that part of the Barrie play where the fond mother gives the commission to a gentleman to buy a razor for her son. Her instructions were to purchase one for a young man about five feet nine, with blond hair and blue eyes.

What can be expected of the public taste when furniture of the period styles is sold by a dealer under the argument that it is in fashion this year? One might just as well expect an architect to advise his clients to have a facade with Corinthian columns upon his house because Doric detail has "gone out."

It is the peculiar psychology of fashion to neglect fitness as a determining factor. Sometimes novelty, sometimes eccentricity, sometimes chic, sets a style in garments. The mysterious arbiter unalterably fixes it. Although unexpressed, there is a clear understanding that it will be evanescent. This year's gowns 'go out' next year. We do not wish to deny that fitness is absent from fashion. Often it is present, but merely incidentally a part. Mode means temporary favor, prevailing only in incidents of time.

The period styles are developments, natural evolutions. Historical influences become crystallized in form and detail. Now it was the growth of the new learning, now the new discoveries in Pompeii, now the spread of commerce, which affected them. The craftsmen

of each period adapted the new ideas of their civilization to the old forms of their predecessors had left them, and modified these new elements to the usage of their time. It may be argued that this is nothing more than fashion. We do not agree because of the factor of permanence in each style.

But these styles reflected the kind of life of the people. It was gay, it was decorous, or it was a time of strict restraint and simple pleasures. At any rate the period styles had a utility element; they were created to form an appropriate background to the life of the people, they reflected tastes which, though predominating at the time which gave them birth, still are characteristic of many to-day. Since they are in the realm of art, their interest is lasting, for art is of all time. Seek, therefore, that period which meets the demands of your own life.

In modern usage we have these resources of the great furniture groups to draw upon. We do not say that Georgian is better than Jacobean. There is the place for each. Both may exist just as there is room for the romantic and the realistic novel. Each style has its peculiar feeling, its fitness depends upon the atmosphere which is made desirable by local conditions. The kind of house, the type of life of the individual, the character of the neighborhood and the function of the particular room—and its color scheme—these are all considerations bearing on the proper selection of furniture. People are different; their requirements, thoughts and manners are different. The decorator, whether he be the house owner or the professional, must make a study of the specific problem from the standpoints suggested above.

There is no Prince of Wales, no Paris, to decree what furniture and decorations you should select. You and good taste in partnership are the judges. You may not use period style at all, but whatever method you choose, use it because it answers your needs and your artistic sense, being thankful that we are not compelled to dress our homes as we are our bodies."

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HOW WE CAN ENLIVEN OUR ARCHITECTURE.

(Continued from page 615.)

did show their natural if primitive share in such feelings down to the French Revolution. Signs of the same normal taste are not lacking for half a century later. But now, with the saving exception of woman's dress, all is ugliness, dullness and gloom.

Of course one may be optimistic and argue that this is only a passing phase, due to the commercializing of everything, to the effort to acquire riches rather than happiness, to get money for money's sake. Perhaps the next generation will learn to live in agreeable and beautiful surroundings, considering that in clothes and architecture the main object is art, not the cost. It is most likely that attention bestowed on beauty in dress will lead directly to beauty in buildings; for the latter (the dwelling) is only an extension of the former (man's clothing).

Some attention has been paid in recent times to the psychology of the matter, the reaction of immediate surroundings on the mind. The effect upon a woman of wearing a tasteful gown has been the theme of a thousand essays, but she has no monopoly of that subtle influence, for man reacts to the same stimulus.

Religion or politics may step in to thwart the national inborn tendencies, but they lie too deeply embedded in our hereditary instincts to be crushed. Always they will rise again to assert their liberty after the pressure of some tyrannical fashion has relaxed. So it was that asceticism failed in the middle ages to subdue the love of color through the church; on the contrary, the church had to surrender. So it comes about that a misunderstood classicism in architecture and

sculpture has failed to reduce those branches of the arts to cold whiteness and a fashionable monotony of pallor, for the signs of the revolt are all about us. Give us rich, strong exteriors full of palpitating color! Let our capitols, libraries, theatres, hotels at least prove by their glowing and storied walls that we appreciate our splendid climate and

the marvelous landscapes and seascapes about us, and that we are minded no longer to scuttle about in palaces, like black beetles, affecting a love for holes and corners; rather do we propose to assert ourselves as human beings, aware of our heritage of beauty in color and form.—Charles DeKay, in "Arts and Decoration."

PRESENT DAY TENDENCIES IN SCHOOL ARCHITECTURE

By NORMAND S. PATTON, Architect, Chicago, Ill.

School buildings are planned through the co-operation of educators, architects and school boards. A knowledge of the tendencies of these three groups would enable one to forecast the school architecture of the near future with a fair degree of accuracy. If I were addressing the general public, I would describe those changes in our educational system that call for new types of buildings; but coming as an architect among educators, it is to learn rather than teach this branch of the subject.

Our educators must be the leaders in developing our system of education, and architects must adapt school buildings to the educational program.

In searching for the present tendencies of architects, there lies on the surface the fact that architects are coming under the influence of the educational system. The route to the architect's office lies no longer through the carpenter shop, but through the college and the technical school. Raising the standard of education among architects means better buildings of all classes, including schools.

The public school boards of to-day show a disposition to erect better buildings than formerly, and to provide more money for both building operations and for the services of the best architects. This liberality is due mainly to the general interest in all that promotes the welfare of children, and is an expression of the desire of the public.

This advance in the quality of school buildings is keeping step with the general advance in the architecture of all classes of buildings. It is a part of the higher scale of living and the demand of an educated and well-to-do public.

There is a marked tendency towards architectural display in high school buildings more than in the grade schools, due rather to local pride than to any greater care for the older pupils. There is but one high school to many grade buildings, and it is natural to select this structure as one of the public monuments of the town.

The result of all these forces is that we are now in a time of active evolution and improvement in the construction and design of our schools. The public makes a liberal supply of funds; the best architects find it worth

their while to study the school problem, and our monthly magazines find, in school architecture, interesting matter for illustration.

To come now from the general to the particular, what are the special improvements in the modern school buildings?

First, better construction, especially in resistance to fire and better provision for exits. City and State building laws aid this advance. Our larger cities require all schools to be of fireproof construction. The example of these buildings leads architects to approximate, at least, fireproof construction in other communities. The approximations consist in more numerous brick walls; making the stairs and corridors fireproof; the substitution of metal for wood lath; or the use of tile partitions; the making of the main floor fireproof, even though the upper floors and roof be combustible. The object to be sought in the construction of a school is to make a building in which the escape of the pupils cannot be cut off by fire or smoke. A fire in the roof space might ultimately spread downward and destroy the building, but there would be ample time for the pupils to escape before the fire or smoke could reach them; but a fire in the basement would travel upward rapidly and the smoke would fill the corridors. Hence the value of a fireproof floor above the basement.

If a school is reasonably well planned and built, there is little danger of actual contact with fire. The greatest danger is from panic and the resulting crushing on the stairways. The conspicuous avoidance of all combustible materials in the corridors and stairs will do much to allay groundless fear and thus avoid panic. If, from daily use of fireproof exits, both teachers and pupils gain the impression that their escape cannot be cut off by fire, they are not likely to lose self-control in time of actual alarm.

Another improvement is in the line of better sanitation. The heating and ventilating system is a most vital part of a modern school. Steam heat is supplanting hot-air furnaces. Ventilation by natural draft can be made fairly efficient for grade schools of not more than eight rooms, but for larger buildings, and all high schools, mechanical ventilation is now considered a necessity.

Automatic temperature regulation is no longer an experiment, but an essential part of a ventilating system for schools.

The limits of this paper will not permit a discussion of the details of heating and venilation. Architects and engineers are in substantial agreement as to the methods to be employed. However, the experiment of open-air school rooms being tried in certain Chicago schools is worthy of serious consideration. It seems to be demonstrated that by introducing sufficient moisture into the air of the school room, the winter temperature can be reduced to sixty degrees, or even less, with a marked benefit to the health of the pupils.

Since modern plumbing has become almost universal in the homes of the pupils, there is a tendency to make the fixtures in the school correspond to those with which the pupils are familiar at home; and to locate the toilet rooms on the various class room floors in place of concentrating the same in the basement. In such sanitary reforms as the abolition of the public drinking cup, our schools are abreast of the times.

The ratio of window surface to the floor area is controlled by law in many States and there is little danger of insufficient windows in the school rooms of today. There is danger, however, of cutting off the light by an improper use of window shades. The object of shades in a school room is not to make the room dark, but to screen it from the direct rays of the sun. Therefore opaque shades should never be used. The best material is Holland cloth of a light buff color. The sun shining upon this material transmits a soft, mellow light. The darkest part of a room, of course, is the side remote from the window. The light for this side must come from the top of the window. Therefore window shades should never be hung at the top of a school room window. The best method of placing shades is to hang two shades to each window, both rollers being placed at the meeting rail of the sash, one shade to pull down and the other to pull up.

There have been great improvements in artificial lighting within the past few years. But, as school work is conducted mostly in the day time, the question of artificial lighting is not important, except in special cases.

The greater specialization of present methods of teaching and the addition of laboratory work in the schools, have led to the provision of special rooms. High schools, especially, have developed into complex structures. A well equipped high school will include an assembly hall, a library, and perhaps a museum, a gymnasium and laboratories for chemistry, physics and biology; shops for manual training; a kitchen for domestic science, with a model dining room; perhaps a room for sewing; a commercial room; drawing rooms for mechanical and free hand drawing; modeling rooms, with perhaps a kiln for burning pottery. One recent high school has an elementary science room, and special rooms for the study of the classic languages and English. The "Classic Room," designed and furnished in the Roman style, and the "Eng-

lish Room" in the English style, with a red quarry tile floor, brick fireplace, oak beamed ceiling and stained glass windows. A large sliding partition between the rooms permits uniting the two into a club room for the use of student societies. The intention of these rooms is to stimulate interest in these special studies by appropriate surroundings, and thus compete with the highly specialized science equipments.

Gymnasiums which were formerly placed only in large city high schools, are now becoming an essential part of every complete high school, and are being extended to the grade schools.

No one, who has observed school buildings of recent years, can have failed to notice an improvement in the character of the designs. This improvement is due partly to general advance in the quality of American architecture, but perhaps still more to the improvement in the quality of school boards, and their appreciation of good architecture. This leads to the selection of a higher grade of architects. Another tendency that makes for the improvement of school building, is the abandonment of the evil practice of having architects submit designs in competition. This practice has almost passed away, and architects are selected as a superintendent of schools would select his teachers, on the basis of their record in work already completed.

An examination of recent designs of school buildings, by many architects, and in all parts of the country, shows a tendency to greater individuality of design and a following of no particular architectural style. The best school design is that which follows no historical style of architecture, but is developed rationally from the conditions of the problem. For example, the large window area necessary in a class room necessitates the use of very narrow piers between the windows. There is thus developed the idea of making the windows of each class room into a group. If such window grouping is adopted, a style of design must be used that will lend itself to such treatment.

What is true of schools, holds good of all buildings. Every new type of building requires the development of a new style of architecture, or at least the modification of some old style. The breaking away from historic styles of architecture, and the evolution of new forms of design to meet new conditions in school buildings is one of the hopeful signs in present work.

The past ten years have seen rapid changes in building materials. Architectural design is affected not only by the purpose of the building, but by the material used. It is an axiom of architecture that no material should be used in imitation of another, but each material should be treated in accordance with its nature. Therefore the introduction of new materials, differing in nature from those formerly used, calls for new forms of design.

Exterior plastering in Portland cement has largely taken the place of wood as a covering for wood construction. Such a construction of wood frame, covered with plaster, is ap-

propriate only for very small schools. At the present time, a construction is developing of hollow tile for walls, with a ribbed surface to receive plaster directly on the tile, both exterior and interior.

Exterior plastering has been introduced by architects as something better than wood siding or shingles, and, as a rule, this material has been handled in a truthful and artistic manner, in accordance with its nature. It is used as plaster, not in imitation of any other material.

In contrast to this, cement blocks have been invented as something cheaper than stone, and are usually made in imitation of stone. As an imitation, they are a fraud, and are not good art. Cement blocks can be made in a truthful and artistic manner, but their large and uniform size makes them a poor material from the point of view of design.

Concrete, poured in place, can have a satisfactory treatment of the surface, but such treatment is expensive and this material is better adapted to constructive than decorative forms.

Of all new materials, vitrified brick seems the best adapted for general use in school building. This material has brought about such a complete revolution in our ideas of what brick should be, that I venture to expand somewhat in description of the new idea in brick. The old idea was mechanical perfection. The attention was concentrated on the individual brick rather than on the wall. We sought brick, with smooth surfaces, straight edges and uniform color. They were laid with fine joints. When the utmost perfection was attained in this direction, what did we have? A wall without force or character. The best brick wall seemed inferior to the meanest stone wall. We never escaped from the pettiness of the material. The soot of our cities stained the surface and the alkali came out of the wall whenever the water penetrated the porous brick.

Now we no longer think of bricks, but of brickwork. We seek a wall surface of varied colors, and a marked texture. We want a material that will appear as solid as stone and will be washed clean by every rain. We prefer large joints that bespeak strength rather than fine joints, whose noblest quality is neatness. We think of a wall of a building, as we look upon the walls of the Rocky Mountain canyons. The rocks were built up by nature, layer by layer, and the marks of stratification are apparent; but we do not dwell upon the smallness of the layers, but upon the massiveness of the rock. So with our wall of brick, it is built course by course. But when made of materials, vitrified by fire, and bound into one mass by cement, we lose sight of the individual bricks and see the wall which rivals stone in durability and massiveness and exceeds it in its capacity for color.

The latest improvement in the manufacture of brick is to roughen the surface of the stiff mud, as it comes from the machine, by cutting with wire, thus producing a variety of beautiful textures, according to the nature of the clay.

Vitrified brick is so different in character

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from the smooth and porous pressed brick that it is leading to the development of new styles of architectural treatment.

One of the most important movements in architectural circles has not as yet affected school buildings as it should.

I refer to the grouping of buildings and the treatment of the grounds as an integral part of architectural design. It is not often that public school buildings are built in groups, but even in the case of a single building, the location should be considered in reference to surrounding buildings, and all schools that have open grounds around them should have those grounds designed with as much care as is bestowed upon the building itself. Some architects have given study to this subject and can make designs for landscape accessories, but in most cases it is better to employ a landscape architect, who should be selected by the architect of the building and work in consultation with him.

In conclusion, I offer a suggestion to anyone contemplating building, that if you would get the best services from your architect, call him into consultation at the very beginning of your building enterprise, even before the site has been selected, or the bonds voted.

SUCCEEDS JAMES KNOX TAYLOR.

Architects will regard with more than passing interest the succession of Ralph Adams Cram to the chair vacated by James Knox Taylor in the Department of Architecture of the Boston Institute of Technology. President MacLaurin, of the Institute, also announces that Prof. William H. Lawrence, a graduate of the Institute, for many years professor of architectural engineering in the department, will become chairman of the Department of Architecture.

Among architects Mr. Cram is regarded as eminently fitted to handle the problems of architectural education. He served as chairman of the Committee on Education of the American Institute of Architects for many years, and has been energetically associated with many of the movements of public work. He was chairman of Boston's planning board; president of the Boston Society of Architects; fellow of the American Institute of Architects; associate of the National Academy of Design, and a member of the American Federation of Arts. He also belongs to a number of foreign societies, among them being the North British Academy of Art and the Royal Geographical Society. He is also a

corresponding member of the Royal Institute of British Architects.

He has published many works that are classic in architecture and is quite as prominent as a lecturer in his versatility. In his recent work, "The Ministry of Art," he says, "I mean that function which I think art has performed, and always can perform as an agency working toward the redemption of human character. * * * The ministerial quality is not monopolized by the divinely established orders, but reaches out in weakening degree amongst many classes of men, whereby they themselves are or may become ministers in potency and in fact."

ARCHITECTURAL PUBLICITY.

The following very timely advice we find in the "Pacific Coast Architect" and pass it along for the consideration of the publicity committee of those all too modest organizations, our local and Western friends of the American Institute of Architects:

There is a growing belief in publicity at the present day. Architects should take heed that the proper form of publicity has made certain "Trade Marks" a household word. Progressive manufacturers and dealers are readers of papers and trade journals.

The trained and skilled architect of the present day is fast realizing that he has to go out and "get" business like manufacturers send out salesmen, also advertising their wares in various manners. The leading actress and actor of the present day inevitably proceed to create something sensational to get before the public to develop large box office receipts.

The skilled architect should advertise himself and his profession. Some we know never leave their offices to look for a contract, and they are soon left behind by their more progressive colleagues in the profession.

It is often conceded that the majority of leading architects of the present day are termed good salesmen. They sell their wares, including the manufacture and execution of their plans and specifications, leaving minor matters of detail assigned to departments which have their careful supervision. A successful architect must also be a good business man.

Let the architectural associations, chapters, etc., look to their laurels and develop their profession publicly. Your clients are from the intelligent and wealthy classes, but they generally need education along your professional line.

Get together and foster your interests or numerous large contracting firms, employing their own drafting departments and designers, will make further inroads on your chosen profession.

MONEY PUT INTO BUILDING.

For every human being in the United States \$11 was last year put into a building of some kind. The money expended in such operations just about balances our Government debt, says an exchange.

There are no figures to show definitely how much of this immense sum went into buildings that earn nothing, but far more than half of it certainly has become nailed down into an investment that is non-creative.

Most of the cash a man devotes to his home at once goes into the drone class, whereas, the money he spends for a chicken house or a better stable for his cows or improved farm implements immediately begins to work and earns interest upon the investment. A new store is a money grubber, but frills upon the home are not.

Right here is one reason why Europeans, who as a class earn far less every year than Americans, have such stupendous sums to invest in securities. Building in Europe cannot exceed \$2 for each person, as against five times that for Americans.

No other part of the earth's surface was ever covered in so brief a time with such a colossal amount of buildings as our particular slice of North America.

PROFITS IN WEATHER STRIP WORK.

A great many carpenters and builders are making a good thing on weather strips. It's easy to keep one man busy all the time. In fact, a great many carpenters are going into weather strip work on their own account, with the idea of keeping busy at good wages and enjoying in addition the agent's profit on the materials used. Also a good many large contractors are coming to make quite a specialty of weather stripping and find it a very desirable addition to their regular line of work.

The season is now here for taking up the weather strip business. By the time you get the details of your agency proposition straightened out and ready for business, the weather strip season will be on you in full force, and people clamoring on all sides for better protection from the cold blasts of the fall winds. The carpenter is the man invariably selected for this work, which means a good thing for all of our readers who can secure the agency for desirable weather strip material.—"American Carpenter and Builder."

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

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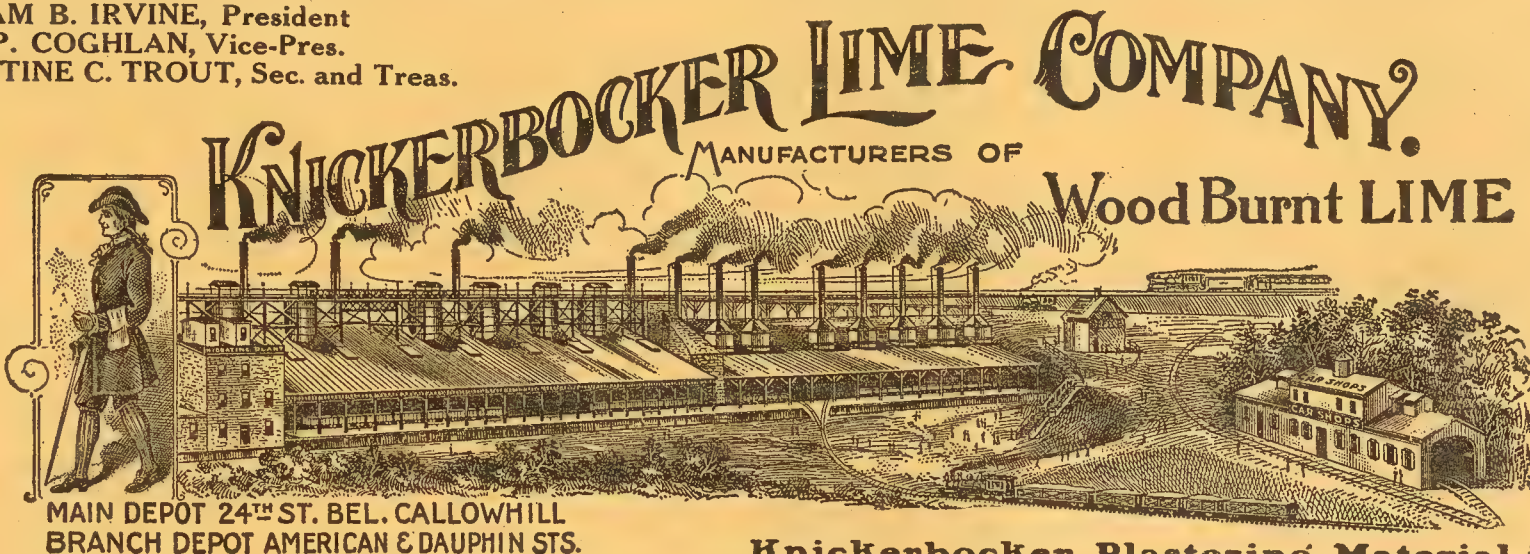
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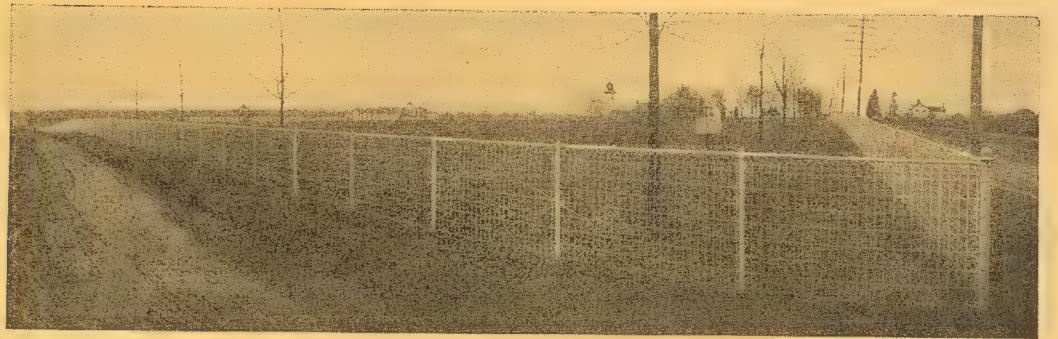
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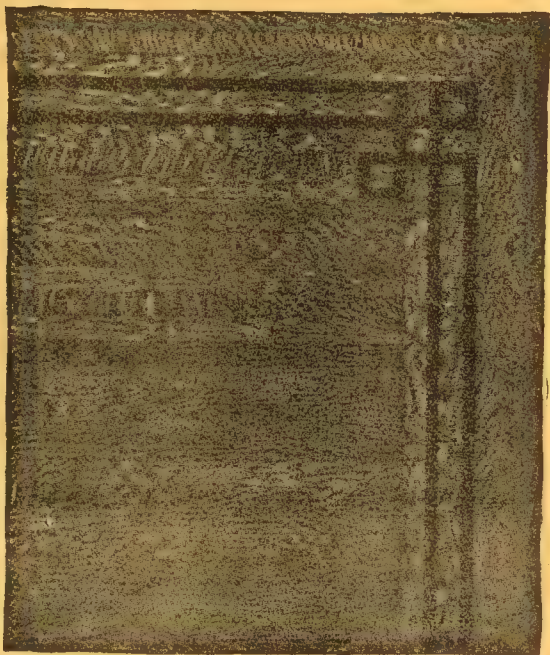
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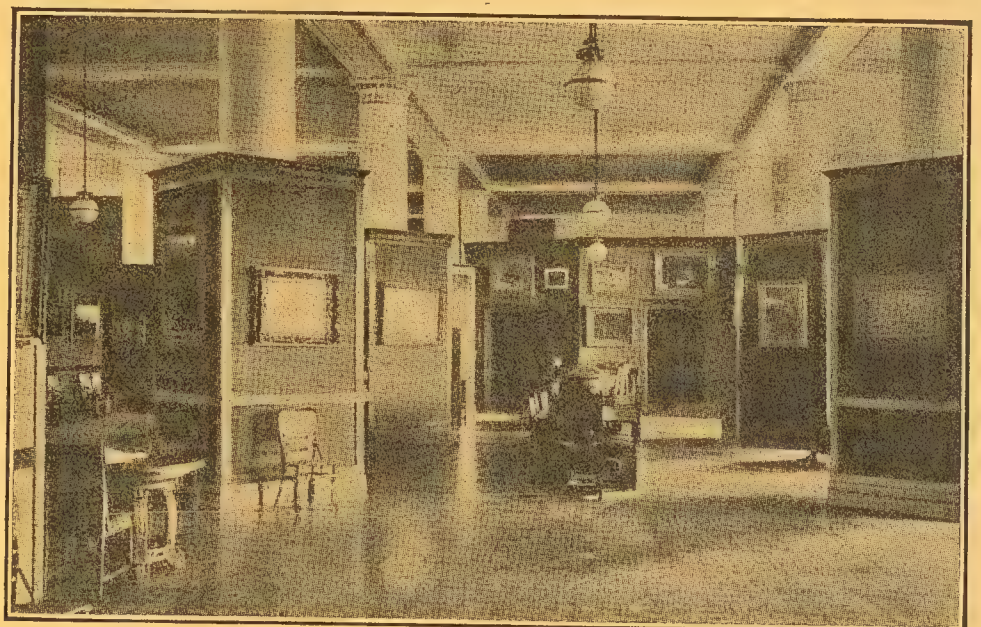
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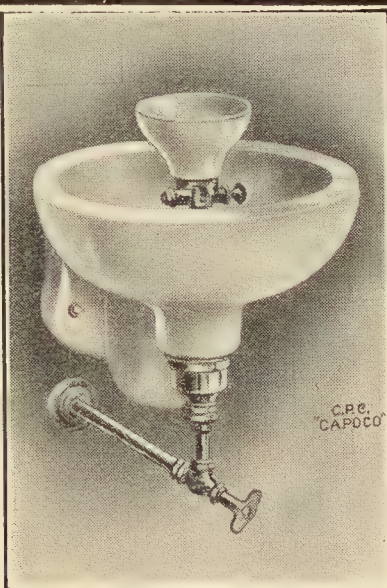


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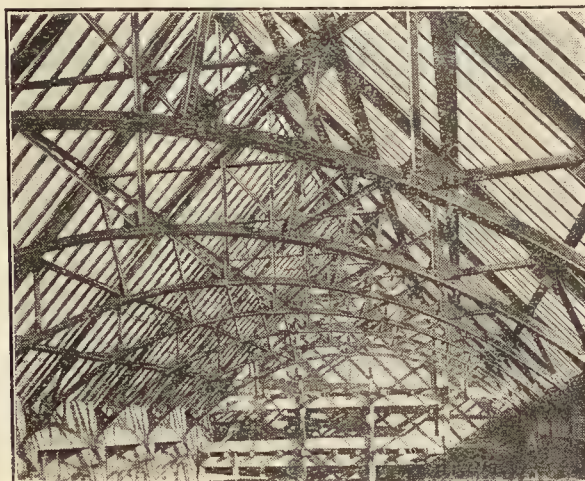


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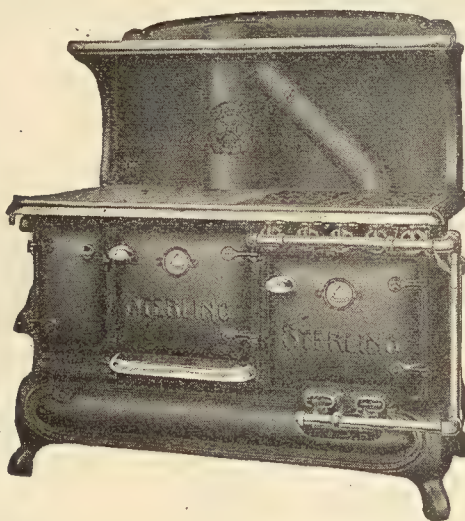


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PHILADELPHIA, WEDNESDAY, SEPTEMBER 30, 1914.

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartments (alt. and add.), 20th and Chestnut sts., Phila. Architects, C. E. Schermerhorn, 430 Walnut st., Philadelphia. Owner, Estate of Stephen B. Fotterall; W. F. Fotterall, 1937 Chestnut st., Philadelphia. Brick, 4 stories, 20x100 feet, slag and tin roof, hot water heating, electric lighting, hardwood floors, metal sash and frames, kalamein doors (electric elevator, reserved). Architect taking bids due October 2d. The following are figuring: F. T. Mercer Co., 1706 Delancey st.; T. C. Trafford, 1613 Sansom st.; A. L. Fretz & Sons, 1222 Chancellor st.; W. John Stevens, Wyncote, Pa.; Jos. Bird Co., 213 N. 11th st., all of Philadelphia.

Convent and Rectory, 12th and Spring Garden sts., Philadelphia. Architects, Ed. F. Durang & Sons, 12th and Chestnut sts., Philadelphia. Owner, Church of the Assumption, Rev. J. Smith, on premises. Brick and stone, 2 and 3 stories, 40x50 feet; wing 20x31 feet, 35x70 feet; wing 18x37 feet, slate and slag roof, hot water heating, electric lighting, metal lath. Plans in progress. Architects ready for bids in two weeks.

Church (alt. and add.), 5th street above Venango st., Philadelphia. Architect, A. M. Stern, 413 N. 38th st., Philadelphia. Owner, St. Matthew's Reformed Church, care of Rev. W. O. Sylvius, on premises. Stone and brick, 1 story, slate and tin roof, safety treads (heating and lighting reserved). Architect has received bids.

Dairy, 45th and Parrish streets, Philadelphia. Architects, Stuckert & Sloan, Crozer Building, Philadelphia. Owner, John W. Scott. Dairies, 45th & Parrish sts., Philadelphia. Brick, concrete and steel, 2 stories, 84x161 ft., slag roof, metal lath, waterproofing, rolling steel shutters, metal sash and frames, (heat and lighting, separate bids). Architects have received bids.

Residence (alt. and add.), 3927 Locust st., Philadelphia. Architects, Folsom and Stanton, 1433 Chestnut st., Philadelphia. Owner, Harold Goodwin, on premises. Brick and plaster, 3 stories, 16x38 ft., tin roof, vapor vacuum heating, electric lighting, tile floors, canvas roof. Architects have received bids.

Residence, Logan, Pa. Architect, Alex. M. Adams, 1012 Walnut st., Philadelphia. Owner, J. H. Clark, Jr., care of Architect. Stone, 2½ stories, 33x53 ft., slate and canvas roof, oak floors (heating and lighting, reserved). Architect taking bids due October 2nd. The following are figuring:—F. E. Wallace, 1210 Sansom st.; F. T. Mercer Co., 1706 Delancey st.; W. J. Cowell, 943 E. Cheltenham ave.; Oak Lane Park Building Co., Oak Lane, Philadelphia.

Residence, 54th and Overbrook avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut st., Philadelphia. Owner, E. H. Reuss, 921 S. 46th st., Philadelphia. Stone, 2½ stories, 40x30 ft., wing 19x20 ft., slate roof, hot water heating, electric lighting, hardwood floors. Owner has received bids.

Stores and Garage, 415 N. 63rd street, Philadelphia. Architect, J. Vaughn Tunnell, 5548 Haverford ave., Philadelphia. Owner, Clifford W. Miller, 5716 W. Girard ave., Philadelphia. Brick, 1 story, 16x220 ft., slag roof, steam heating, electric lighting. Owner has received bids.

Factory, 2nd and Lehigh avenue, Philadelphia. Architects, Watson & Huckel, 1211 Walnut st., Philadelphia. Owners, Hess-Bright Mfg. Co., on premises. Brick and concrete, 2 stories, 38x200 ft., slag roof, electric lighting, (heating, reserved). Plans in progress.

Machine Shop (add.), 17th and Cambria sts., Philadelphia. Architects, private plans. Owners, F. J. Stokes Machine Co., on premises. Brick, 1 story, 32x45 ft., slag roof. Revised plans in progress.

Apartment House, Broad and Dauphin sts., Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Morris L. Miller and A. Groskin, Commonwealth Building, Philadelphia. Brick, 3 stories, 20x151 ft., slag roof, steam heating, electric lighting, tile and marble work. Owners taking sub-bids.

Store Building (alt. and add.), 25 S. 16th st., Philadelphia. Architect, private plans. Owners, Wm. H. Horn & Sons, 1515 Arch st., Philadelphia. Brick, 3 stories. Plans in progress.

ress. Owners will take bids in about one week.

Residence (alt. and add.), 5205 Haverford ave., Philadelphia. Architect, J. C. S. Fernald, 5533 Wyalusing ave., Philadelphia. Owner, Wm. Fleming, on premises. Brick, 2½ stories, 15x34 ft., slag and tin roof, electric lighting, (heating, reserved). Architect has received bids.

Residence (alt. and add.), 63rd and Master sts., Philadelphia. Architect, private plans. Owner, Robert S. Pettit, on premises. Brick, 3 stories, 16x100 ft., slag and tin roof, hot water heating, electric lighting, composition floors. Owner has received bids.

Factory (alt. and add.), 13th and Cherry sts., Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, A. Steinfeld, Juniper & Cherry sts., Philadelphia. Brick, 5 stories, 60x104 ft., slag roof, steam heating, electric lighting. Plans in progress.

Sewers, Philadelphia, Pa. Engineer, George S. Webster, Survey Bureau, City Hall. Owner, Department of Public Works, City Hall. Brick and concrete, schedule "B," Spruce street to Schuylkill river, Venango street, Delaware river to Carbon street; main sewer reconstruction, Haverford avenue, Schuylkill river and Thirty-first street. Schedule "C," Pennypacker creek, sewage disposal basin. Plans in progress. Owner will advertise for bids in one week.

Bridge. Glenwood avenue and Reading Railroad. Engineer, George S. Webster, Survey Bureau, City Hall. Owner, Department of Public Works, City of Philadelphia. Concrete and steel, 57 ft. long. Plans in progress. Bids in about 2 weeks.

Store (alt. and add.), Fifty-fourth and Pine streets, Philadelphia. Architects, B. J. Medoff & Son, 524 Walnut street, Philadelphia. Owner, Miss Anna J. Twadell, care of Simon Weiss, agent, 524 Walnut street, Philadelphia. Brick, 2 stories, slag roof, electric lighting. Agent taking bids.

Packing Plant and Warehouse (add.), 837 Calowhill street, Philadelphia, \$35,000. Arch-

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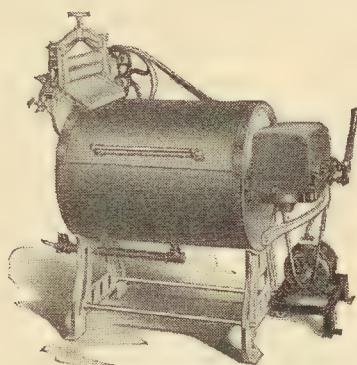
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itect, private plans. Owners, Sulzberger & Sons Co., 140 North Delaware avenue, Philadelphia. Brick and reinforced concrete, 3 stories, 75x85 feet, slag roof, electric lighting. Plans in progress. Not decided when bids will be taken.

Church, Bridesburg, Pa., \$20,000. Architect, Harry Simmerman, 4957 Hawthorne street, Philadelphia. Owner, Independent Greek Catholic Church, Bridesburg, Pa. Stone, 1 story, 40x80 feet, slate roof, steam heating, electric lighting. Plans in progress.

Factory, Frankford, Philadelphia. Architect, Harry Zimmerman, 4957 Hawthorne street, Philadelphia. Owner's name withheld. Brick, 1 story, 50x110 feet, slag roof,

steam heating, electric lighting. Plans in progress.

Bridge, Glenwood avenue and Reading Railroad, Philadelphia. Engineer, George S. Webster, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Concrete and steel, 57 feet long. Plans in progress. Owners will advertise for bids in two weeks.

Garage, Front and Richmond streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, Simon Weil, 3309 North Broad street, Philadelphia. Brick, 2 stories, 90x95 feet, slag roof, steam heating, electric lighting. Architect taking revised bids. George Hogg, 1634 Sansom street, Philadelphia, is figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Nurses' Quarters and Laundry (alt. and add.), Wissahickon avenue and Lincoln drive, Philadelphia, \$4,000. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Dr. A. Ridgway, Wayne avenue and Penn street, Germantown. Stone, 2 stories, slate roof, consists of interior alteration and addition. Contract awarded to Moore & Graham, 622 West Johnson street, Germantown.

Saturating Building (add.), Gray's Ferry Road, Philadelphia, \$5,500. Architect, private plans. Owner, Barrett Manufacturing Company, 17 Battery Place, New York City. Brick, 1 story, 100x112 ft. Contract awarded to Chas. Colgan, 749 South Twenty-second street, Philadelphia.

Residence (alt. and add.), 20th and Green streets, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Geo. Abbott, Sr., 31st and Chestnut streets, Philadelphia. Brick, 4 stories, metal lath, consists of interior alteration and addition, (heating and lighting, reserved). Contract awarded to C. Strode & Sons, 12 North Nineteenth street, Philadelphia.

Residence, Ridge avenue and Wizard street, Philadelphia, \$10,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, William J. Galt, Jr., on premises. Stone, 2½ stories, 40x42 feet, slate roof (heating, electric work and floors reserved). Contract awarded to John F. Davies, Heed Building, Philadelphia.

Railroad Siding, Kensington and Lehigh avenues, Philadelphia. Engineer, private plans. Owners, Hulton Dyeing and Finishing Co., on premises. Concrete and timber, 100 feet long. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Hospital, Eighteenth and Fitzwater streets, Philadelphia, \$150,000. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owners, Children's Hospital, care of Dr. Robert G. Le Conte, 1530 Locust street, Philadelphia. Brick, steel and concrete, fireproof, 4 stories, 45x100 feet. Consists of main building and children's dispensary, tile and slag roof, steam heating, electric lighting, composition floors, metal lath, waterproofing, metal sash and frames, enameled bricks. Contract awarded to Roydhouse-Arey Co., Fidelity Building, Philadelphia.

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PENNSYLVANIA Construction News

Car Shops, Pen Argyl, Pa. Engineers, private plans. Owner, Lehigh & New England Railroad Company, South Bethlehem, Pa. Brick, concrete, hollow tile, stucco and steel, 1 and 2 stories, 164x264 feet, 100x41 feet, 50x41 feet. Consists of main locomotive repair shop, boiler-house, storehouse, oilhouse, engine pits, offices, etc., cement tile, concrete and asbestos roofs, steel sash and doors, fan system of heating. Owners taking bids, due September 30th. The following are figuring: James G. Doak & Co., Crozer Building, Philadelphia; Robert S. Rathbun, Allentown, Pa.; McClintock-Marshall Construction Co., Pottstown, Pa.; F. D. Hyde Co., 90 West street, New York City; James Stewart & Co., 30 Church street, New York City; Williams & Richardson, Connell Building, Scranton, Pa.; Lathrop, Shea & Hepwood Co., Peoples Bank Building, Scranton, Pa.; R. T. & C. D. Stewart Construction Co., Easton, Pa.; W. W. Lindsay & Co., Harrison Building, Philadelphia; Pittsburgh Construction Co., Diamond Bank Building, Pittsburgh, Pa.; Roydhouse-Arey Co., Fidelity Building; Chas. McCaul Co., 1713 Sansom street, Chas. Gilpin, Harrison Building, all of Philadelphia.

Residence, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner's name withheld. Frame and stucco, 2½ stories, 30x40 feet, shingle roof, warm air heating, electric lighting. Plans in progress. Architects will probably award contract without competition.

Penitentiary, near Bellefonte, Pa. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owner, State of Pennsylvania Western Penitentiary. Stone, brick, steel and concrete, 2 stories, 146x206 feet. Building will contain chapel, auditorium, dining hall, kitchen, bakery, cold storage plant, library and printing offices, composition roof, metal lath, waterproofing, safety treads, electric elevator (heat and light, reserved). Architect taking sub-bids on all lines. Plans may be seen at the Builders Exchange, 24 S. 7th street, Philadelphia.

Residences (8), Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owners, Ira B. Harr and Miss Harr, Lansdale, Pa. Brick, brownstone trimmings, 2½ stories, 16x24 feet each, slate and tin roofs, hot air heating, electric lighting. Owners have received bids.

Garage, Ogontz, Pa. Architect, Ralph E. White, Penna. Building, Philadelphia. Owner, Budd G. Nice, Land Title Building, Philadelphia. Stone, 1½ story, 16x32 feet, slate roof, structural slate, (heating and electric work reserved). Architect has received bids.

School, Emaus, Pa., \$30,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Board of Education, C. F. Wagner, secretary, Emaus, Pa. Brick, 2½ stories, 44x144 feet, slate roof, steam

heating, electric lighting, slate blackboards. Owners have received bids.

Riding School and Green House, Norristown, Pa., \$6,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Adam Scheidt, Norristown, Pa. Brick, steel and glass, 1 story, 55x112 feet and 32x20 feet, composition roof, steam heating, electric lighting. Architect will award contract in one week.

Heating Plant, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Junction House Hotel, Lansdale, Pa. Steam or vapor heating system. Architect taking bids.

Church, Mauch Chunk, Pa. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia, Pa. Owner, St. John's Episcopal Church, Mauch Chunk, Pa. Stone, 1 story, 70x150 feet, slate roof, steam heating, electric lighting. Plans in progress. Bids in ten days.

Sheep House, Oreland, Pa. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Oreland, Pa. Frame, 2 stories, 51x28 feet, shingle roof, waterproofing. Architects have received bids.

Residence, Haverford, Pa. Architects, Mellor & Meigs, 205 S. Juniper street, Philadelphia. Owner, Caspar W. Morris, Land Title Building, Philadelphia. Brick and plaster, 2½ stories, 71x90 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Architects taking bids, due Sept. 30th. (Note change in date.) A. L. Fretz & Sons, 1222 Chancellor street, Philadelphia, is figuring, in addition to those previously reported.

Church, Harrisburg, Pa., \$50,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owner, Curtain Heights M. E. Church, Harrisburg, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Residence, Hatboro, Pa. Architect, A. H. MacIntire, 5712 Rodman street, Philadelphia. Owner, name withheld. Stone and frame, 2½ stories, 25x33 feet, shingle roof, electric lighting, oak floors, steam heating. Architect taking bids, due October 8th. Smith-Hardican Co., 1606 Cherry street, Philadelphia, is figuring.

Residence (alt. and add.), Colmar, Montgomery Co., Pa. Architect, E. J. Holmes Co., 1311 Walnut street, Philadelphia. Owner, R. Hayes Dutton, Colmar, Pa. Brick and plaster, 2½ stories, 15x35 feet, slate and slag roof, electric lighting, oak floors (heating, reserved). Architects taking bids, due Sept. 30th. James B. Flounders, 1329 Arch street, Philadelphia, is figuring.

Cow Barn, Bryn Mawr, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Mrs. W. B. Saunders, Bryn Mawr, Pa. Stone, 2 stories, 25x100 feet, shingle roof. Architect taking revised bids. W. Harry Roberts, Newtown Square, Pa., and George L. Croll, Rosemont, Pa., are figuring.

Wall and Fence, South Bethlehem, Pa.

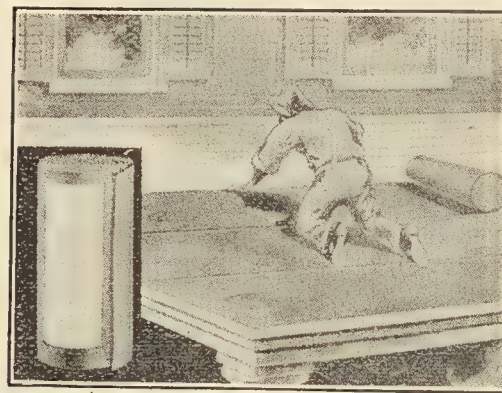
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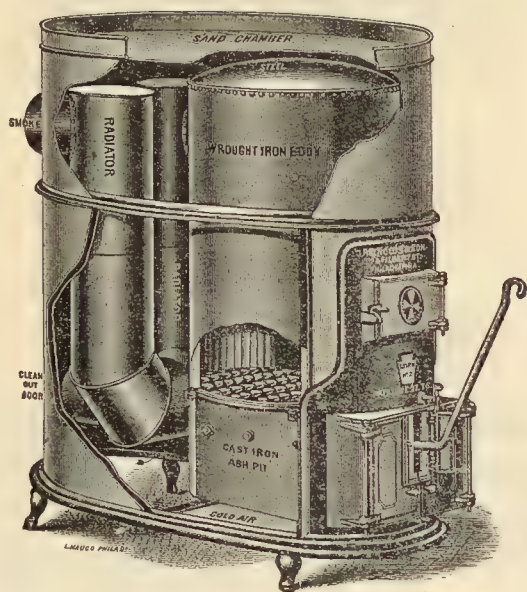
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Architect, A. W. Leh, South Bethlehem, Pa. Owner, Charles M. Schwab, 111 Broadway, New York City. Granite and iron, 366 feet long. Architect taking bids. Chas. McCaul Co., 1713 Sansom street, Philadelphia, is figuring.

Residence, Swarthmore, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, J. Archer Turner, 1713 Sansom street, Philadelphia. Stone, concrete floors, 2½ stories, 61x28 feet, wing 25x27 feet, shingle roof, heating undecided, electric lighting. Owner will sub-let all contracts and is now taking bids on stone, mill work and tile work.

Post Office, Carnegie, Pa. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick and stone, 1 story, tin roof, steam heating, electric lighting. Owner taking bids, due October 27th at 3 P. M. Charles McCaul Co., 1713 Sansom street, Philadelphia, is figuring.

Fences, Ardmore and Pala, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Commissioners of Lower Merion Township, G. C. Anderson, Clerk, Ardmore, Pa. Iron fence for Ardmore and wood fences at Bala. Owners taking bids, due October 9th at noon.

Residence, Elkins Park, Pa. Architect, W. A. Foster, Columbus, Ohio. Owner, T. E. Karlson, Chestnut avenue, Oak Lane, Philadelphia. Stone and frame, 2½ stories, 30x40 feet, shingle roof, hot water heating, electric lighting. Owner taking bids. The following are figuring, in addition to those previously reported: McCormick & McCormick, Elkins Park, Pa.; L. C. Hemmerly, Oak Lane, Philadelphia; Frank Hellerman, Ashbourne, Pa.

Garage, Allentown, Pa., \$10,000. Architect, Robert A. Schurmann, 932 Lambertson street, Trenton, N. J. Owners, Packard Motor Car Co., Allentown, Pa. Brick, concrete and steel, 2 stories, slag roof, steam heating, electric lighting. Plans in progress.

Bindery and Loft Building, Reading, Pa., \$15,000. Architect, J. Earl Hickman, 119

South Fifth street, Reading, Pa. Owner, August W. Arnold, 634 Washington street, Reading. Brick, 3 stories, 36x100 feet, asbestos roof, steam heating, electric lighting. Plans about completed. Architect will take bids in a few days.

Orphans' Home, Tipton, Pa., \$7,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owners, Lutheran Orphans' Home, care of W. O. Laub, Secretary, Tipton, Pa. Brick, 1 story, 30x56 feet, wing 20x26 feet, slate roof, hot water heating gas lighting. Plans in progress.

Cottage, Spring Mont, Pa., \$3,000. Architect, J. Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, P. F. Bradbury, 339 Penn street, Reading, Pa. Brick and stucco, 2 stories, 24x27 feet, shingle roof, vapor heating, electric lighting. Plans in progress.

Residence, North Side, Reading, Pa., \$4,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Carl F. Mayer, Reading, Pa. Brick, 2½ stories, 30x32 feet. Plans in progress.

Residence, Reading, Pa., \$4,000. Architect, George L. Gerhard, 519 Penn street, Reading, Pa. Owner, Percy B. Snyder, Reading, Pa. Brick, 2½ stories, 30x30 feet, slate roof, hot air heating, electric lighting, tile work, weather stripping. Plans in progress. Architect will take bids in two weeks.

School, Myerstown, Pa., \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Stone, 2 stories, 140x84 feet and 20x75 feet, slag roof, slate blackboards, metal lath, waterproofing, safety treads (heating, plumbing and electric work, separate bids). Owners taking bids, due October 9th. (Note change in date.) The following are figuring: F. W. Van Loon, Denckla Building; Berry-Goodwin Co., Drexel Building; F. Roe Searing, Perry Building, all of Philadelphia; Adam Spatz, Wernersville, Pa.; Isaac Hook, Myerstown, Pa.; George H. Boyer, Lebanon, Pa.; C. W. Strayer, Harrisburg, Pa.; J. E. Funk, Cleona, Pa.

PENNSYLVANIA

Contracts Awarded

Dyeing Plant (adds.), Allentown, Pa., \$10,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, National Silk Dyeing Co., Allentown, Pa. Concrete and brick, 1 story, 36x50 feet, and 47x130 feet, slag roof, steam heating, electric lighting, concrete floors, damp-proofing and waterproofing. Contract awarded to W. A. Stein & Bro., Fulton and Andrew streets, Allentown, Pa.

Residence, Allentown, Pa., \$8,000. Architects, Jacoby & Weishample, Common-

wealth Building, Allentown, Pa. Owner, James Holman, Allentown, Pa. Hollow tile and stucco, 2½ stories, 38x40 feet, tile roof, gas and electric lighting, tile work, hardwood floors (heating, reserved). Contract awarded to E. Albrecht & Sons, Allentown, Pa.

Residence, Jeffersonville, Pa., \$5,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Albert Myers, Norristown, Pa. Brick, 2½ stories, 30x40 feet, slate roof, hot water heating, electric lighting. Contract award-

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ed to Jacob Buckwalter, Collegeville, Pa.

Parochial School, Columbia, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, St. Joseph's R. C. Church, care of Rev. P. G. Brueggeman, Columbia, Pa. Stone and brick, 2 stories, 86x143 feet, slate and slag roof, (heating, reserved), metal lath. Contract awarded to D. S. Warfel, Lancaster, Pa.

High School (add.), Lansdowne, Pa., \$44,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Lansdowne, Pa. Brick, stone trimmings, 2 stories, 120x68 feet, slate roof, steam heating, electric lighting, dampproofing and waterproofing, slate blackboards. Contract awarded to Wilbert Beaumont, Stephen Girard Building, Philadelphia.

Garage, Laverock, Pa. Architects, Furness, Evans Co., Provident Building, Philadelphia. Owner, F. Rosengarten, 9th and Parrish streets, Philadelphia. Frame and plaster, 2 stories, 20x35 feet, slate roof, electric lighting. Contract awarded to Geo. S. Roth & Sons, 230 E. Gravers Lane, Philadelphia.

Cottage, Ringtown, Pa. Architect, I. H. Francis, Commonwealth Building, Philadelphia. Owner, Girard Water Co., Ringtown, Pa. Stone, 1½ stories, 34x35 feet, slate roof. Contract awarded to Henry Reich, Ringtown, Pa.

Residence, Radnor, Pa., \$75,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Denekla Mills, Bryn Mawr, Pa. Stone, brick and plaster, 138x77 feet, slate roof, hardwood floors (heating, plumbing and electric work reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence, Wyomissing, Pa., \$25,000. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Keller, 126 North Fifth street, Reading, Pa. Brick, 2½ stories, 50x50 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work, waterproofing and dampproofing. Contract awarded to George A. Koch, 1024 Aobeson street, Reading.

Lodge Building, Boyertown, Pa., \$20,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Oriole Lodge, Boyertown, Pa. Brick, 2½ stories, 48x100 feet, slag roof, electric lighting, metal lath, waterproofing and dampproofing (heating reserved). Contract awarded to Charles H. Schlegel, Mt. Penn, Reading, Pa. (Contract not signed.)

Residence, Wyomissing, Pa., \$4,000. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Mrs. W. C. Homan, 226 South Sixth street, Reading, Pa. Brick, 2½ stories, 32x34 feet, tin roof, hot water heating, gas and electric lighting, tile work. Contract awarded to Daniel H. Hunter, 820 North Eleventh street, Reading.

Residence (alt. and add.), Muhlenberg Township, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Wilmer Jones, Muhlenberg Township, Reading, Pa. Frame and stucco, 2½ stories, 20x22 feet, slate roof. Contract awarded to D. B. Warner, Muhlenberg, Reading, Pa.

Riding School, Norristown, Pa., \$8,000. Architect, M. B. Bean, Lansdale, Pa. Owner, Adam Scheidt, Norristown, Pa. Stone, concrete and steel, 1 story, 112x55 feet, Ready roofing, electric lighting, cement floors. Contract awarded to Frank R. Heavner, Norristown, Pa.

NEW JERSEY

Construction News

Hotel (alt. and add.), Atlantic City, N. J., \$30,000. Architect, private plans. Owner, Princess Hotel, Charles B. Prettyman, 764 S. Broad street, Philadelphia, and Princess Hotel, Atlantic City, N. J. Brick, 5 stories, slag roof, steam heating, electric lighting, tile work, waterproofing and dampproofing. Owner taking sub-bids.

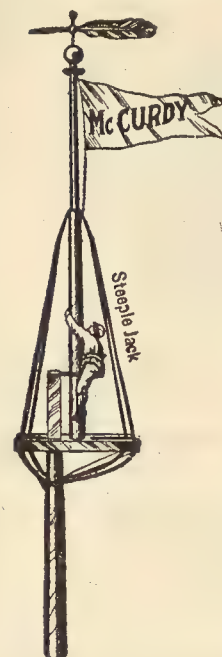
Residence, Atlantic City, N. J., \$8500. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owner, Emily C. Calif, Atlantic City, N. J. Brick and frame, 3 stories, 28x45 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Store and Apartments, Atlantic City, N. J., \$12,000. Architect, Seward G. Dobbins, City Square Theatre Building, Atlantic City, N. J. Owners, Dr. Walter Brooks and W. Shaffer Smith, 2033 Atlantic avenue, Atlantic City, N. J. Brick, 3 stories, 18x80 feet, slate roof, hot water heating, gas and electric lighting, tile work, waterproofing and dampproofing. Plans in progress.

Water Works (add.), Atlantic City, N. J., \$80,000. Engineer, L. Van Gilder, City Hall, Atlantic City, N. J. Owner, City of Atlantic City, Harry Bacharach, Director of Parks and Public Property, City Hall, consists of additions to Lower Doughty Pond, timber, concrete and sheet steel piling. Owners taking revised bids, due October 1st. E. L. Bader, Bartlett Building, Atlantic City, is figuring.

Residence (alt. and add.), Woodstown, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, Sue H. Coles, Woodstown, N. J. Brick, 2½ stories, tin roof (heating and lighting, reserved). Architects taking bids due October 5th. The following are figuring: J. H. Bell, Benj. Darlington, Ed. Steelman, B. Brandiff, all of Salem, N. J.; J. M. Hunter and L. S. Parks, both of Swedesboro, N. J.; N. A. Lacey, Richwood, N. J., and Seagraves & Pintel, Woodstown, N. J.

Residences (2), Atlantic City, N. J. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, M. W. Newton, 8th and Chestnut streets, Philadelphia.



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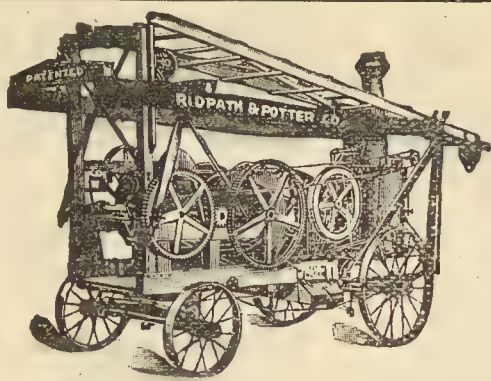
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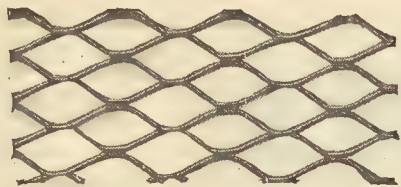
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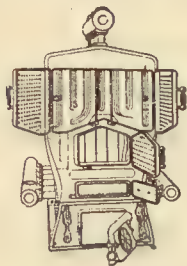
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School (add.), Beverly, N. J., \$25,000. Architect, H. A. Brown, Beverly, N. J. Owners, Board of Education, Clarence Hazzard, Secretary, Beverly, N. J. Brick, 2 stories, 60x50 feet, tin roof, electric lighting, slate blackboards. Revised plans in progress.

Residence (alt. and add.), Trenton, N. J., \$10,000. Architect, W. A. Poland, 11 West State street, Trenton, N. J. Owner, Mrs. Charles E. Hewitt, on premises. Brick and stucco, 2 1/2 stories, slate roof, gas and electric lighting, hot water heating, hardwood floors, tile work. Architect has received bids. Contract not yet awarded.

Residence, Vineland, N. J., \$4,000. Architect, H. S. Stees, Drexel Building, Philadelphia. Owner, William A. Klaitz, Vineland, N. J. Brick and frame, 2 1/2 stories, 26x30 feet, shingle roof, hot water heating, electric lighting. Plans in progress. Owner will take bids.

New Jersey

Contracts Awarded

Cottage, Cape May, N. J., \$5,000. Architects, Thomas & Churchman, 130 S. 15th street, Philadelphia. Owner, Stockton Land Company, Cape May, N. J. Frame, 2 1/2 stories, 28x38 ft., shingle roof, electric lighting. Contract awarded to Sherman Sharpe, Cape May, N. J.

School (Alt. and Add.), Barnegat, N. J., \$7,500. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, Board of Education of Union Township, Barnegat, N. J. Hollow tile and frame, two stories, 38x24 feet, tin roof, mechanical system of warm air heating, metal lath, slate blackboards. Contract awarded to Peterson Construction Co., Clayton, N. J.

Detention House, Camden, N. J. Architect, Private plans. Owner, City of Camden, care of City Engineer, City Hall, Camden, N. J. Brick and asbestos shingles, two stories, 30x32 feet, asbestos shingle roof, hot air heating and steam heating, gas and electric lighting. Contract awarded to W. A. Richman, Moorestown, N. J.

Residence (Alt. and Add.), Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, W. B. Stokes, Trenton, N. J. Frame, 2 1/2 stories, tin roof, gas and electric lighting. Contract awarded to Edward D. LaRue, 53 S. Hermitage Street, Trenton, N. J.

Pavilions (2), Morris Plains, N. J., \$8,963. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Brick, frame and glass, one story, 42x68 feet and 20x33 feet, slag roof,

steam heating, electric lighting. Contract awarded to J. J. Lyons, Morristown, N. J.

Surgical Room, Morris Plains, N. J., \$1,800. Architect, George S. Drew, Court House, Trenton, N. J. Owner State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Electric lighting and tile work. Contract awarded to J. J. Lyons, Morristown, N. J.

Maryland

Construction News

Store Building, 3 Fallsway, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia, and Munsey Building, Baltimore, Md. Owner, Louis Miller, 5 Lloyd street, Baltimore, Md. Brick, 4 stories, 30x80 feet, slag roof, electric lighting (heating reserved). Architect taking bids. The following are figuring: Joseph Schamberger, 2122 E. Baltimore street; R. B. Mason, 306 W. Madison street; M. Silverstein, Lair Building; D. M. Andrews Co., 26th and Mt. Vernon streets; Edward Watters & Co., 509 N. Charles street, all of Baltimore.

Warehouse, Frederick street, between Baltimore and Water streets, Baltimore, Md., \$15,000. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owners, H. H. Taylor & Son, 11 S. Gay street, Baltimore. Brick, 2 stories, slag roof, steam heating, electric lighting. Architects taking bids. The following are figuring: J. H. Smith, 1426 Light street; C. L. Stockhausen, Gay and Water streets; Consolidated Engineering Co., Calvert Building; Cowan Building Co., 106 W. Madison street; H. H. Brown, 109 Clay street, all of Baltimore, Md.

Business Building, 801 E. Baltimore street, Baltimore, \$20,000. Architect not yet selected. Owner, A. Perel, 913 E. Baltimore street, Baltimore, Md. Brick, 5 or 6 stories, slag roof, steam heating, electric lighting. Owner will soon select architect.

Store Building (alts.), 118 N. Howard street, Baltimore, Md. Architect, O. G. Simonson, Maryland Casualty Tower, Baltimore. Owner's name withheld. Brick, 3 stories, steam heating, electric lighting. Architect taking bids. The following are figuring: M. C. Davis, 15 E. Fayette street; Consolidated Engineering Co., Calvert Building; West Construction Co., Knickerbocker Building, Monmonier and Sorrell; Horace Ford, 604 N. Fremont street; Cowan Building Co., 106 W. Madison street; Edward Watters & Co., 509 N. Charles street.

Residences (5), Chestnut Hill avenue, near York Road, Baltimore, Md., \$6,000. Architect, Henry J. Tinley, Saratoga and St. Paul streets, Baltimore. Brick, 2 stories, 15x48 feet, slag roof, steam heating. Owner will sub-let all contracts.

Factory and Warehouse, Preston street and Linden avenue, Baltimore, \$10,000. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owner, Oriental Rug Co., 1101 Cathedral street, Baltimore. Brick, 3 stories, 25x88 feet, slag roof, steam heating, electric lighting. Owner taking bids. The following are figuring: C. C. Watts, 427 E. 25th street; George Hyatt, 701 Gorsuch avenue; Henry Mumberger, 34 W. Chase street; A. Silverstein, Law Building; John H. Cross, Maryland avenue and S. Biddle street; W. T. Childs, 14 W. 20th street, all of Baltimore, Md.

Bakery (alt. and add.), 1612 to 1622 Barnes street, Baltimore, Md. Architect, John Freund, Jr., 11 E. Lexington street. Owner, J. J. Rokos, on premises. Brick, 2 sto-

ries, slag roof, steam heating, electric lighting. Architect taking bids. The following are figuring: T. B. Stanfield & Co., 212 Clay street; C. L. Stockhausen, Gay and Water streets; Edward Watters & Co., 509 N. Charles street; H. H. Maclellan, 15 E. Fayette street; Geo. F. Smith, 517 N. Wolfe street, all of Baltimore, Md.

Armory, Elkton, Md. Architect, R. A. Whittingham, Newark, Del. Owner, State of Maryland, care of C. B. Finley, Elkton, Md. Stone and steel, two stories, 63x146 feet, composition roofs, (heating and lighting, reserved). Owners taking bids due October 3rd. (Note change in date.) George Hogg, 1634 Sansom Street, Philadelphia, and W. A. Richman, Moorestown, N. J., are figuring in addition to those previously reported.

Residence, Guilford, Md., \$12,000. Architect, Laurence Hall Fowler, 347 N. Charles Street, Baltimore, Md. Owner, John E. Deford, Ruxton, Md. Brick, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids. The following are figuring: Gladfelter & Chambers, 2072 Woodberry Avenue; G. W. Torell, Eutaw and McCulloh Streets; Willard E. Harn Co., 213 N. Calvert Street; Edward Brady & Son, Cathedral and Howard Streets; Cowan Building Co., 106 W. Madison Street; all of Baltimore, Md.

Warehouse and Factory, Eager and Warder Streets, Baltimore, Md. Architect, C. M. Anderson, 324 N. Charles Street, Baltimore, Md. Owner, Dix Manufacturing Co., 1021 Guilford Avenue, Baltimore, Md. Brick and concrete, two stories, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to J. J. O'Connor, 427 E. Lexington Street, Baltimore, Md.

Maryland

Contracts Awarded

Residence, Stable and Garage, Guilford, Md., \$45,000. Architect, E. L. Palmer, Roland Park, Md. Owner, Dr. Donald R. Hooker, Belvidere Falls Road, Roland Park, Md. Stone, 2½ stories, 95x31 feet, 24x35 feet, 24x24 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Roland Park Co., Roland Park, Md.

Garage, Guilford, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owner, Wm. G. Scarlett, 722 E. Pratt street, Baltimore. Stone and stucco, 1½ stories, 32x25 feet, tile roof, steam heating, electric lighting. Contract awarded to G. Walter Tovell, Eutaw and Dolphin streets, Baltimore, Md.

Garage, Charles street, near Lafayette avenue, Baltimore, Md. Architect, private plans. Owner, Garage Building Co., care of Builder. Reinforced concrete, 2 stories, 95x104 feet, slag roof, steam heating, electric lighting, electric elevator. Contract awarded to E. D. Springer & Co., 424 N. Charles street, Baltimore, Md.

Miscellaneous

Construction News

Garage, Wilmington, Del. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Wm. C. Spruance, 1616 Broome street, Wilmington, Del. Brick and plaster, 1½ stories, 19x22 ft., slate roof, hot water heating, electric lighting. Architect taking bids. Henry L. Brown, 1714 Sansom street, Philadelphia, and E. J. Johnson, Wilmington, Del., are figuring.

TWO INSTRUMENTS Worth while Knowing about!

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"Sterling" Builders' Transit

WARREN-KNIGHT COMPANY, Makers

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PHILADELPHIA, U. S. A.

We Repair and Adjust all makes of instruments, tape lines, etc., and take old transits and levels in exchange.

Court House and City Hall, Wilmington, Del., \$1,000,000. Architects, (Assoc.), John D. Thompson, Jr., Ford Building, Wilmington, Del., and Palmer, Hornbostel & Jones, 63 William Street, New York City. Owner, Wilmington and New Castle County Building Commission, Thomas F. Gormley, Secretary, Church Building, Wilmington, Del. Stone and steel, fireproof, three and five stories. Owners taking bids due October 20th at 11 A. M., on the following lines: Rolled steel windows, carpenter and cabinet work, plastering and imitation stone work, metal furring and lathing, glass and glazing, electric elevators, magnesite and cork floors, vault doors and tile work. Plans may be obtained from the Commission after October 6th, upon a deposit of \$50.00.

Sunday School, Portsmouth, Ohio, \$20,000. Architect, A. A. Ritcher, Sixth and Court Streets, Reading, Pa. Owner, German Evangelical Church, Rev. S. Lindenmeyer, 709 Fifth Street, Portsmouth, Ohio. Owners taking bids due October 3rd, at 6 P. M. The following are figuring: J. F. Cook, 917 Seventh Street; C. E. Nourse, 509 Campbell Avenue; Pfeiffer & Carson, 517 Glover Street; Wm. Bradley & Co., 2031 Eleventh Street; all of Portsmouth, Ohio.

Residences (5) (Alt. and Add.), Wilmington, Del., \$2,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Peter J. Ford, Ford Building, Wilmington, Del. Brick and frame, one story, 8x18 feet, rear addition, tin roofs. Plans in progress.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Carl A. Mayer (O), 5504 N. 5th st. Cost, \$14,400. 8 dwellings, brick, 2 stories, 14x30 ft., 2nd & Olney ave. Cost, \$3,000. Store and dwelling.

Philadelphia Paper Mfg. Co. (O), Manayunk, Phila. Cost, \$20,000. Boiler House, brick, 1 story, 85x90 ft., Manayunk, Phila.

John Tucker (O), 312 Christian st. Cost, \$2,500. Store and dwelling, brick, 2 stories, 16x41 ft., Cedar & Madison sts. Cost, \$32,000. 16 dwellings.

Michael Naimixe (O), 4540 Stiles st. Cost, \$7,200. 4 dwellings, brick, 2 stories, 16x42 ft., Bermuda & Duncan sts.

Mark Haller (O), 2123 S. 4th st. Cost, \$60,000. 30 dwellings, brick, 2 stories, 15x26 ft., 2nd & Ritner sts. Cost, \$8,000. 2 stores and dwellings. Cost, \$6,400. 4 dwellings. Cost, \$12,000. 4 stores and dwellings. Cost, \$43,200. 27 dwellings. Cost, \$43,200. 27 dwellings. Cost, \$6,400. 4 dwellings.

General Manufacturing Co. (O), 30th & Market sts. F. W. Van Loon (C), Denckla Bldg. Cost, \$12,000. concrete, 1 story, 62x114 ft., Swanson & Snyder ave.

J. E. Enick (O), 1001 Chestnut st. Cost, \$19,200. 16 dwellings, brick, 2 stories, 15x30 ft., Sepviva & Venango sts.

Mrs. W. S. Massey (O), Torresdale, Pa. M. K. Freas (C), Andalusia, Pa. Cost, \$10,000. Residence, stone, 3 stories, 16x20 ft., Torresdale, Pa.

H. J. Farrell (O), 6505 Woodland ave. Cost, \$2,400. Dwelling, brick, 2 stories, 17x29 ft., 6318 Paschall ave. Cost, \$4,400. Two dwellings.

Jas. J. Heckler (O), 1546 Lehigh ave. Cost, \$38,000. 19 dwellings, brick, 2 stories, 15x30 ft., Dell & McFerran sts. Cost, \$3,000. dwelling.

Estate of T. L. Leedom (O), Philadelphia. Barclay White Co. (C), Perry Bldg. Cost, \$14,000. Mill, brick, 4 stories, 41x33 ft., 2415 Howard st.

Mrs. F. Feldman (O), 5th and Moore sts. M. Kirchner (C), 421 Snyder ave. Cost, \$40,500. 15 dwellings, brick, 2 stories, 15x21 feet, 3506 to 34 Frankford ave.

Ella P. Deitrick (O), 3016 Comly st. Lewis Deitrick (C). Cost, \$4,400. 2 dwellings, brick, 2 stories, 16x45 feet, Walker and Higbee sts.

B. E. Vanderslice (O), 1019 Orthodox st. H. A. Leister (C), 1808 Harrison st. Cost, \$17,500. 7 dwellings, brick, 2 stories, 16x27 feet, Harrison & Wakefield sts.

John Y. Adair (O), 6900 2nd st. pike. Cost, \$5,000. 2 dwellings, brick, 3 stories, 16x30 feet, Fanshaw and 2nd st. pike.

Zetta Brodsky (O), 7936 Lyons ave. Morris Brodsky. Cost, \$15,000. 6 dwellings, brick, 2 stories, 16x38 feet, 80th & Bibson ave.

Chas. Cox (O), 415 Lyceum ave. H. C. Messimer (C), 471 Markle st. Cost, \$4,800. 2 dwellings, brick, 2 stories, 15x44 feet, 422 Martin st.

Martin & Wm. H. Nixon Paper Co. (C), Manayunk, Phila. Barclay White Co. (C), Perry Bldg. Cost, \$30,000. manufacturing, brick, 1 story, 70x210 feet. Cost, \$33,000. Storage, brick, 1 story, 190x280 feet, Manayunk.

Harold Scroper (O), 5028 Frankford ave. Cost, \$2,800. dwelling, brick, 2 stories, 14x47 feet, 1501 Dyre st. Cost, \$17,500. 7 dwellings. Frank Thompson, 54th and Tinicum ave. Cost, \$5,100. 3 dwellings, brick, 2 stories, 16x30 feet, 82nd and Botanic ave.

Benj. Alexander (O), Hale Bldg. Cramp & Co. (C), Denckla Bldg. Cost, \$60,000. Warehouse, brick, 6 stories, 40x100 feet, Broad and Race sts.

A. C. Schoen (O), 237 Wyoming ave. Cost, \$6,400. 4 dwellings, brick, 2 stories, 12x30 feet, Lindley ave. and Fairhill st.

Mrs. Wm. Harley (O), 3043 Kensington ave. J. F. Crowe (O), 3127 Belgrade st. Cost, \$4,375. store and dwelling, brick, 3 stories, 15x52 feet, Oakdale and Kensington ave.

Alterations and Additions

T. Olsen & Son (O), 500 N. 12th st. Lam Bldg. Co. (C), 1001 Wood st. Cost, \$2,000. Factory, 500 N. 12th st.

James F. Nolan (O), 64 Church Lane. Chas. Johnson (C), 5701 Boyer st. Cost, \$1,800. Garage, 64 Church Lane.

McCreary Estate (O), 1810 Chestnut st. Guernsey-O'Meara (C), 1408 N. American Bldg. Cost, \$6,000. Dwelling, 1810 Chestnut st.

Methodist Episcopal Hospital (O), Broad & Wolf sts. H. E. Baton (C), 12th & Sansom sts. Cost, \$6,000. Hospital, Broad and Wolf sts.

Blumberg Bros. (O), 458 N. Orianna st. J. Greenspun (C), 551 N. 6th st. Cost, \$850. Dwelling, 458 N. Orianna st.

Theodore Julius (O), 1014 S. 48th st. Le Roy K. Smith (C), 4007 Chester ave. Cost, \$6,000. Store and apartments, Chester & Wilton aves.

Geo. Abbott, Sr. (O), 31st & Chestnut sts. R. W. Strode & Son (C), 12 N. 19th st. Cost, \$1,465. Residence, 20th & Green sts.

Dr. Ridgway (O), Wayne ave. & Penn st. More & Graham (C), 622 W. Johnson st. Cost, \$4,000. Stable, Wissahickon ave. & Lincoln Drive.

M. Patterson (O), 24th & Fairmount ave. J. J. Hardwig (C), 746 Ringgold st. Cost, \$5,375. Manufacturing, 59th & Woodland ave.

Ed. Meadlope (O), Atlantic City, N. J. M. Morrison (C), 2322 Howard st. Cost, \$1,000. Dwelling, 2438 to 46 Hope st.

A. Warono (O), 744 S. 7th st. Cost, \$3,000. Factory, 11th & Catherine sts.

Miss Roberts (O), 19th & Walnut sts. W. R. Dougherty (C), 1608 Sansom st. Cost, \$1,200. Dwelling, 19th & Walnut sts.

W. D. Berluck (O), Somerton, Pa. Cost, \$2,000. Dwelling, Somerton, Pa.

Barrett Mfg. Co. (O), 36th & Grays Ferry Road. Chas. Colgan (C), 749 S. 22nd st. Cost, \$5,500. Manufacturing Bldg., 36th & Grays Ferry Road.

M. Vondran (O), 301 Tusculum st. E. J. Gilbert (C), 3206 Harley st. Cost, \$1,300. Dwelling, 301 Tusculum st.

Carey Bros. (O), 2228 N. 10th st. Albert Doak (C), 2138 Arch st. Cost, \$2,000. Boiler House, 2228 N. 10th st.

Mrs. A. R. Snyder (O), 7942 Germantown ave. Pringle Borthwick (C), 8018 Germantown ave. Cost, \$5,000. Garage, Willow Grove & Germantown aves.

Malcolm Mills (O), Orchard & Church sts. C. W. Platt (C), 1015 Arch st. Cost, \$2,000. Boiler House, Orchard & Church sts.

I. W. Cross (O), 7004 N. 12th st. F. K. Stahl (C), 2713 N. Park ave. Cost, \$1,850. Garage, 7004 N. 12th st.

Board of Education (O), City Hall. Mitchell Bros. (C), 2125 Race st. Cost, \$11,880. School, Broad & Green sts.

T. J. Rocke (O), 212 Gowan ave. J. McKenna & Sons (C), 1032 Race st. Cost, \$1,500. Garage, 212 Gowan ave.

Sperzell & Schwartz (O), 5702 Chester ave. J. C. Magill (C), 5710 Chester ave. Cost, \$1,000. Shop, 5702 Chester ave.

Hilton Dyeing Co. (O), 2712 Jasper st. G. H. Thirsk (C), 2739 Jasper st. Cost, \$3,000. Boiler House, 2712 Jasper st.

M. A. Callan (O), 145 N. 59th st. Lam Bldg. Co. (C), 1001 Wood st. Cost, \$1,850. Store, 710 S. 11th st.

Citizen's Republican Club (O), 422 S. 15th st. W. Robinson (C), 1508 Lombard st. Cost, \$2,000. Club House, 422 S. 15th st.

and the Wilmington Building Commission, at the office of the Commissions in the Church Building, at the corner of Market and Tenth sts., in the city of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time), on the 20th day of October, 1914, for the Rolled Steel Windows, for the carpentry and cabinet work, for the plastering and imitation stone work, for the metal furring and lathing, for the glass and glazing, for the electric elevators, for the magnacite floors, for the cork floors, for the vault doors, and for the tile work, entering into the construction and completion of the New County Building for New Castle County and of the New Municipal Building for the city of Wilmington, situated between King street and French street, and between Tenth street, and between Tenth street and Eleventh street, in the city of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings for each department or class of work above listed.

Each proposal for Rolled Steel Windows shall be accompanied by a certified check or cash deposit in the amount of four hundred dollars (\$400.)

Each proposal for Carpentry and Cabinet work shall be accompanied by a certified check or cash deposit in the amount of one thousand five hundred dollars (\$1,500.)

Each proposal for Plastering and Imitation Stone Work shall be accompanied by a certified check or cash deposit in the amount of one thousand dollars (\$1,000.)

Each proposal for Metal Furring and Lathing shall be accompanied by a certified check or cash deposit in the amount of five hundred dollars (\$500.)

Each proposal for Glass and Glazing shall be accompanied by a certified check or cash deposit in the amount of two hundred dollars (\$200.)

Each proposal for Electric Elevators shall be accompanied by a certified check or cash deposit in the amount of five hundred dollars (\$500.)

Each proposal for Magnacite Floors shall be accompanied by a certified check or cash deposit in the amount of one hundred dollars (\$100.)

Each proposal for Cork Floors shall be accompanied by a certified check or cash deposit in the amount of one hundred dollars (\$100.)

Each proposal for Vault Doors shall be accompanied by a certified check or cash deposit in the amount of fifty dollars (\$50.)

Each proposal for Tile Work shall be accompanied by a certified check or cash deposit in the amount of two hundred dollars (\$200.)

The Commission to reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty per cent. (50%) of the amount of the contract.

On and after October 6th, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of fifty dollars (\$50.); this de-

Bonds

Improvement

Equipment

SEALED PROPOSALS

As the Home Office and Headquarters for the Most Important Financial, Railroad, Electrical Engineering, Structural, Manufacturing, Material and Equipment Concerns in Pennsylvania Offers a Peculiarly Rich and Productive Field to "Proposal" Advertising.

The Builders' Guide, of Philadelphia, is the only Trade Publication

Native to this Territory. For Rates etc., Address "Proposal Advertising," Builders' Guide, Perry Bldg., Philadelphia

SEALED PROPOSALS.

Treasury Department, Supervising Architect's Office, Washington, D. C., September 15, 1914.—Sealed proposals will be opened in this office at 3 P. M., October 27, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States Post Office, at Carnegie, Pa. The building is one story and basement; ground area, 3,565 square feet; brick facing; tin roof; partial fireproof construction. Drawings and specifications may be obtained from the custodian of site at Carnegie, Pa., or at this office, in the discretion of the Supervising Architect, O. Wenderoth, Supervising Architect.

Treasury Department, Supervising Architect's office, Washington, D. C., September 23, 1914.—Sealed proposals will be received

in this office until 3 P. M., October 22, 1914, and then opened, for a conduit and wiring system and lighting fixtures at the United States appraiser's warehouse, New York, N. Y., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Supervising Chief Engineer, U. S. Custom House, New York, N. Y., in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

NOTICE TO CONTRACTORS.

NEW COUNTY BUILDING FOR NEW CASTLE COUNTY

and

NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON.

Sealed proposals will be received by the New Castle County Building Commission

posit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before November 1, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY,
Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

NAMING THE SUMMER HOME.

The selection of a name for a summer cottage, a camp or a bungalow offers an unusual opportunity. In a single word the owner may announce himself as a humorist or express a welcome or a warning so clearly that he who runs may read.

Any American seaside resort will show instances of ingenuity in hitting upon unusual phrases or coining an expressive word. Considerable talent is shown in expressing this whimsical humor and the variety of names is often surprising.

A humorist on the New Jersey coast, for instance, displays before his cottage an artistic sign bearing the name "Quittherock Inn." The entire name should be pronounced as one word, without separating the syllables, when it gains a musical sound, suggesting some Indian name.

The same termination Inn lends itself to a variety of meanings. There is, for instance, the welcome expressed in the name "Dew Drop Inn." An entirely different sentiment is announced by the name "Seldom Inn." An especially attractive bungalow on the New Jersey coast announces an ingenious sentiment by a sign reading "Nothindo Inn." Perhaps the briefest and most expressive of these inns reads "All Inn."

One of the frankest of the names may be found in front of a boys' camp on the Shrewsbury River which announces candidly "Poppays." One rather dilapidated cottage obviously much in want of repairs takes the passerby into its confidence with the name "Leakyhurst." Another cottager has had the moral courage to hang before his door the advice "Aw-go-on," which if pronounced quickly has quite an Indian flavor. There is a suggestion of summer holidays again in the name "Layoff," and "Forgetit." One of the new names which appears for the first time this season is "Nobodyhome."

DO IT NOW.

All we have is just this minute
Do It Now.

Find your duty and begin it
Do It Now.

Surely you're not always going
To be "a going to be," and knowing
You must sometime make a showing.
Do It Now.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

NOTES ON THE SEPARATE CONTRACT SITUATION

From a Discussion Before the Heating Engineers' Society

D. D. Kimball: I am glad to note that in Canada the tendency is to let building construction work by separate contracts. To my mind there is no justification for any other method. I believe that in three States in the East there are now laws requiring separate contracts on all State and, in some cases, on county and city work. I hope that such legislation will spread to the remaining States of the Union. I cannot see for the life of me where it makes more work for the architect and engineer. I am doing several jobs which were let as general contracts. From the standpoint of the engineer it imposes a lamentable amount of unnecessary work. In certain cases matters of difference have to be carried back and forth between the general contractor, sub-contractor, the architect, etc., and by the time the whole matter has been passed backward and forward it sometimes takes days, weeks or months before the final round-up is made, and in some cases it is never completed. If the engineer is paid on a commission basis he is lucky if he gets paid in any reasonable time.

Theodore Weinshank: I know of a case in a certain city where a general contractor used to get figures from sub-contractors, and, after receiving the contract, he used to what contractors call "peddle" the sub-contractor's figures. In other words, he would go to one sub-contractor and ask him to cut a certain amount from his original bid, and then go to another contractor and state that "A" has cut his figure and "if you will cut another hundred" he would give him the contract. Keeping this up, he would finally get someone to figure low with him, with the idea of putting in the cheapest material possible.

This certain contractor kept this up until such a time when the contractors "got together" and quoted him on a prospective contract, very low figures, and, after he received the contract, they all withdrew their quotation, thus leaving him with about a \$35,000 loss on the contract.

This contractor is out of business today—and for all time to come.

Mr. Kimball: I do not want my remarks to carry beyond their intent. Some may say if you are going to take separate bids for the plumbing, the lighting and the heating, why not take them on the brick work, carpentry work, etc.? I think that would be going too far. The heating, lighting and plumbing are essentially separate things and can well be divorced without interfering with the work on the building; in other words, they do not affect the building as a structure, but comprise the mechanical equipment. So far as

heating, lighting and plumbing are concerned, it seems to me that is growing to be the practice in this country. The material men in the heating, ventilating and plumbing trades, etc., may rise to object that the heating contractors treat them just as the general contractor treats the heating, plumbing and electrical contractors. This is unfortunately true, but this unjust practice can be eliminated by requiring that the heating, plumbing and electrical contractors name in their proposals the particular make of apparatus in each case which they propose to furnish, making this apparatus when approved a part of the contract.

Norman A. Hill: As I understand it, the last speaker agrees with my statement that the contracts for a building when let by separate trades, put more work on the architect and engineer. Now, I have been in the contracting end over six years and for over four years have been on the other side of the fence, that is to say, in consulting work, and as our company now handles the architecture as well as the engineering of buildings, I feel that I know whereof I speak. We have found on large work that it is more economical (from possibly a selfish viewpoint) for the engineer and architect to let the strictly structural or construction portion of the building, as far as possible to the fewest sub-contractors, providing that you get men of known standing, and then we sometimes let one firm in Toronto do the electrical, sprinkler, heating and plumbing work, all under one contract, because we know they will do it well, perhaps better than several small firms by separate trades.

As a matter of fact, in Canada, the work of the architect and engineer is less where the number of sub-contractors is small, provided the general contractor is a responsible concern. I think we must agree there is something saved in not having to handle 12 or 15 different sub-contracts.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

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PUBLISHED WEEKLY

OFFICES, PERRY BUILDING (Suite 824-825)
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Editorial Comment

Doing business with a man whose sense of honor is not all that it should be has its drawbacks, whether in a professional deal or in plain everyday commercial affairs. We all know and many of us have had more or less unpleasant experiences with the type of man "who won't stay put." Architects, by reason of the necessity which custom imposes upon them of submitting preliminary sketches, have probably suffered more at the hands of this class of rascals than men in other professions. It is so easy to get "preliminary sketches." The "Western Architect" cites a case showing just how this form of petty larceny is practiced by the occasional unscrupulous, prospective client.

"This is a tale, of the honorable architect and the—well, business like, client who, by the way, was a banker," says the "Western Architect." "The same old story, but particularly pertinent because of the distinctive character of the architect's work and the 'within the law' complexion of the banker's performance. The architect was not Sullivan, Wright or Cass Gilbert, but his work has a distinctive character known to laymen as well as the profession.

"The bank people were just plain business-like men, and as such not in business for their health. The architect was called to a town at some distance to consult with this banker regarding a new building. The banker was vouched for to the architect by a client and mutual friend. Studies were made, the plan developed and the possibilities discussed as the architect is wont to do when 'consulted' by a client whom he supposes to be guided by the same sense of honor and morality as himself. The architect left his ideas in the form of sketches, etc., and went home. He was soon notified that they had concluded not to employ him. His request that his sketches be returned was complied with after a delay of a number of weeks, previous to which time another architect had been engaged. Upon completion of the building a delegation from the architect's city, including architects and newspaper men, as well as bankers, were invited to the opening. Here an art critic congratulated the bank people upon the success of the design even to the ornamental terra cotta and the lighting fixtures. On his return he congratulated the architect upon the success of his work, the unmistakable authorship of which he had recognized in the design. A prominent architect also repeated the congratulation. Both were surprised to learn that the designer was not the architect of the bank. Subsequently the fixture and terra cotta contractors both apologized for erecting the work, saying that they were compelled, to get the job, to copy some designs previously worked out in model from the designs of the architect for other buildings. The moral of this special rendering of a too common tale is easily read:

* * * The bankers took a chance in their

object of getting something for nothing. The hold-up man takes the same chance, and if his gun is big enough he gets away with it."

* * *

Commenting on this case of plain steal, legalized by the fact that the law recognizes no right of ownership to an idea, the "San Francisco Architect and Engineer" remarks:

"The above is one of a dozen similar cases—some worse, others not quite so 'raw,' that we could cite right here on the Pacific Coast. True, the clients were not all bankers, but there are other men besides bankers who are supposed to be honest and to live 'within the law.' There is a building going up in Oakland to-day, the original design of which is hanging on the wall in the office of a San Francisco architect. But the latter is not the architect of the building under construction. No such good luck for him. Another architect—a friend of one of the owners—is doing the work and is accepting the praises that would seem rightfully to belong to the other fellow."

* * *

Now here is a form of brigandage that the American Institute of Architects, through its various State and city chapters, might take up and seek to check. While one may not, under the law, copyright an idea, one should be able to protect a specific application of this idea, and State legislation should be sought to enable the architect, above all other professional men, to do this.

It ought to be a comparatively easy matter to get through a law in each State forbidding or penalizing by heavy damages the use by an architect on a given job of plans and sketches submitted for that same work by another architect. The fact that architecture is an application of principles nearly as old as civilization itself, and that its limitations are defined by the orders and the schools founded thereon, prevents any attempt to go further than this. There certainly should be some effort to protect the man who supplies preliminary sketches, in good faith, against the filching of the ideas embodied in these sketches by another architect in higher favor with the awarding powers. While here in the East cases of the kind are much rarer, owing to the existence here of a higher code of personal, commercial and professional honor, we hear that they are not altogether unknown. It is a trifle difficult to realize that business and professional men exist who will stoop to practices of the kind, but, conceding that they do, it is clearly the duty of the profession to take such steps as may be necessary to protect the self-respecting member of the profession from this species of theft, whether at the hands of a fellow architect, the unscrupulous business man, or both or either.

Cases of this kind do not fall properly

under the head of plagiarism—they belong in the category of plain stealing.

* * *

"Getting a Job by False Representations" is the heading of an article in the same magazine, directing attention to another and common form of jockeying for commissions. This is the text for the article in question:

"The Supervisors adjourned after rejecting all bids for the erection of the new Court House and directing the architect to remodel the plans along a less expensive scheme. The architect secured the contract for plans upon his guarantee that the total cost of the building would not exceed \$50,000. The lowest bid was \$61,000."—(Extract from the Daily Press.)

"Here is another instance," comments the "San Francisco Architect," "of where the incompetent architect failed to make good his estimate. Every now and then we hear that some irresponsible designer, frequently a non-certificated architect, has been selected to prepare plans for a building in competition with an architect of recognized standing. In the case at point the reputable architect submitted preliminary sketches along with the other fellow, and after both had explained their drawings, the Supervisors suggested some changes and additions that would of necessity call for more money. But their funds were limited, so they inquired of the two architects:

"Can you make these changes and still keep the cost within your estimate?"

"Emphatically no," answered the competent architect.

"Sure, I can," replied the other fellow, knowing well that the job would be his on the strength of such an assertion. He was given the commission. The plans were revised and bids were taken. The outcome was as published in the newspaper quoted above. This was one case out of ten where the irresponsible architect failed to get away with the job. Usually the city or county secures an additional sum so that the plans can be carried out without a second pruning.

"There should be a State law dispossessing an architect of his commission when he falls down on a proposition of this kind, especially if he has deprived a fellow member of the profession of the job by deceiving the building committee."

* * *

Is there nothing in the ethics of the architectural calling covering cases of this variety? Among lawyers they characterize that sort of thing as "sharp practice," and the disciple of Blackstone who is caught at it loses caste even if he is lucky enough to escape being haled before the Board of Censors.

And while we are about it, why not a Board of Censors for the architect who resorts to unprofessional practices? Surely, architects are not less sensitive to considerations of caste than are their legal brethren! Why not, then, an architectural Board of Censors?

* * *

Certain cement and concrete trade magazines have taken to indulging in nasty and unjust little flings at the dependability of

terra cotta, alleging that when used for cornice work this material shows a tendency to work loose and fail.

The magazines that resort to this order of campaigning must be somewhat hard pressed for copy.

As a matter of fact, terra cotta fails just as cement fails or concrete or brick or steel or any other material, when it is not properly anchored. But erected by a builder who knows his business, terra cotta is as safe, as durable and as dependable a material as cement or concrete or brick or steel or any other medium known to the structural trade.

The fault, where fault exists, is not with the medium, but with the builder.

Cass Gilbert chose terra cotta as the medium for the Woolworth Building, the greatest structure of modern times. Does any sane person imagine that Cass Gilbert would have chosen for the tallest of modern buildings a medium that wouldn't hold? Stuff and nonsense! Terra cotta is one of the finest materials known to the building trade. It is also one of the most artistic. Lending itself readily to color, it has overcome the old objection urged to the skyscraper that the detail becomes lost in the distance. A touch of color makes the detail stand out at any height. Any material will fail in the hands of a poor workman. No material is fool-proof. But, given ordinary skill and knowledge of structural details, there is no material before the public to-day adaptable to a greater variety of uses than terra cotta. Nor is there a material of greater dependability, whether for cornice work or exterior walling. Boost cement as much as you will, gentlemen, but try to be fair. Every material has its use.

THE CRACKER ON THE SALES WHIP.

Hobbies move more men than we could name—even if the men themselves try to hide their foibles.

Some persons refuse to buy because a salesman lacks their point of view on life's ethics, or the merit of a cigar, or the flavor of a drink. Some buyers decide their purchases on a salesman's viewpoints on conditions foreign to the article to be sold.

Adaptability is the cracker on the whip of salesmanship.

An insurance solicitor who visited a tough prospect, won his day by a clever subterfuge. He noticed a photograph of the prospect's two children—and said, "My, but Judge Brown would like to be in your boots!"

The prospect asked why. "Because," the solicitor replied, "he has two just such children as yours, and he is unable to pass our examination. He would give you ten thousand dollars for your chance."

Sentiment did what logic failed to do.

The salesman, more than anyone else, is called upon more frequently for outside knowledge.

The personal element enters into all transactions in life. Many a man has lost an order because he ate with his knife. Little

things are the foundations of big things. Just as a building is composed of almost countless bricks, so is a sale built up on countless recourses to human things.

All arguments failing, Mrs. Smith will buy an electric car, because Mrs. Williams has purchased one—and refuses to be outdone.

Other persons pride themselves in being the first in their communities to do a thing.

But, all of them, whether silent or talkative, are throwing out suggestions that become ammunition to the observant salesman.

Just as every sale is a move in a battle-field, so is strategy as important in salesmanship as it is in fighting the enemy, or winning an election.—"Doorways."

LONDON LANDMARKS.

Among new sights in London, unknown last year, is a tablet affixed to 60 Lincoln's Inn Fields, recording the fact that the house was once the residence of Spencer Perceval, the statesman who was shot dead in the lobby of the House of Commons in May, 1812, by a bankrupt, Bellingham. The latter was afterward hanged for the crime. Sir James Thornhill's house, 75 Dean Street, also has a tablet where visitors may see its carved walls and ceilings—some of the best specimens of early Georgian art.

The Tower of London, too, is being restored to something like its old appearance. Rubbish has been cleared from many of the unused rooms, the stone work has been refaced and the iron work restored. High on the face of the White Tower the mutilated outline of Norman arches remains to protest against the bull's-eye windows inserted for the accommodation of a clock. These arches are now to be restored and the clock is to be transferred to a more appropriate situation on the front of the barracks. Various unnecessary accretions have already been removed and the work has been taken in hand of reducing the outgrowths of modern domestic architecture which cling to the inner side of the main gate, or Middle Tower, like a colony of misshapen martins' nests.

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CLOCKS.

America has won for itself an enviable place in the matter of clock making. Of all the artistic productions of Colonial craftsmen none have received such general approbation as the clock, says James Collier Marshall in *Country Life in America*. The Lyre and Banjo designs are purely American; these have been justly appreciated, both in this country and abroad. Until recently, however, we have not attempted the regular production of the very fine and costly timepieces, though now makers of these elaborate types are enjoying considerable success.

There are many really wonderful clocks of both American and European manufacture, being turned out today at a price that is easily within reach of the moderate-sized purse and the number of designs is unlimited. Indeed, there are designs for every conceivable use, and one marvels at the noticeable lack of such a necessary article in many houses. Lord Bacon says: "If a man be in sickness or pain, the time will seem longer without a clock than with it." It is certain that no room in the house is completely furnished without a clock, which is at once the center of interest in the room, the faithful servitor and cheerful companion.

Clocks have always been valued for gifts. From the earliest times, whenever gifts were exchanged between rulers to commemorate some great occasion, a clock has almost without exception, been included in the gift. We read that Charlemagne in 807 A. D. sent to the King of Persia a water clock that struck the hour on a bell. Henry VIII gave Anne Boleyn as a wedding gift, an exquisitely designed and wrought bird-cage boudoir clock. This was decorated with the interwoven letters H and A and the Royal Arms of England.

ARCHITECTURE AS AN EXPRESSION OF PERSONALITY

Relation of Owner to Architect

Since it was first evolved to shelter the childhood of the race, architecture has passed through many changes; but despite the varied guises it has assumed, from the lowliest peasant's home to the stateliest palace, it has always retained a more or less definite relation to the life of the people. It has reflected not only the manners and customs of each period and land, but also the personality of both its creators and those for whom it was designed.

The simpler the building, the more intimate this relation has been—especially in the case of a primitive hut or an old-time villager's cottage, where the owner himself was architect and builder combined. But in the larger and more pretentious structures—fortresses and castles, manor houses, cathedrals and public buildings—the individuality of the architect rather than that of the people was uppermost. And this was natural, for while such buildings were of recognized importance, and while their dignity or magnificence was a source of interest and pride, their planning, building and decoration were left mainly in professional hands. And this accounts for a certain remoteness or aloofness from daily home life which so many European residences possess. They are interesting examples of domestic period architecture, rather than intimate expressions of personal home ideals.

Today, however, this condition no longer holds—at least in America. People are outgrowing the stage of ready-made homes, among both the moderately well-to-do and the more prosperous classes. They are no longer satisfied to leave such an important matter entirely in the hands of another, no matter how great his technical knowledge may be. Those who have given the matter serious reflection wish to co-operate with the architect, to take an active part in the planning and supervising of the various details as well as the general scheme, so that the final result will be as close as possible to their own conception of what the "ideal home" should be.

Personal interest in the subject and close co-operation with one's architect are not enough, however. In fact, they are likely to prove rather disastrous unless backed by a certain amount of technical information and an understanding of the various problems of layout, construction and design which confront one at every turn. In order to achieve any degree of success, the home-builder must fortify himself with as much practical knowledge as he can acquire, must grasp clearly the most essential architectural principles, and familiarize himself with the best forms of modern construction and the most satisfactory and appropriate materials. Armed with these facts, he will be in a position to help instead of hinder

his architect, and the two together, working with mutual interest and with an understanding of the limitations and opportunities of the case, will stand a fair chance of achieving a thoroughly comfortable, beautiful home.

Indeed, it is only through such collaboration and through the judicious criticism and appreciation of the general public that American architects can be expected to put forth their best efforts. And no widespread national architecture can be built up until the intelligent interest of the people as a whole is aroused, until their eyes and minds are trained to recognize good work and to refuse what is imitative and inferior.

One of the most serious defects against which architect and layman alike must guard, is that of pretension. The desire to create a home of distinction and charm is legitimate enough, for every one has a right to attempt the finest of which he is capable. But unfortunately this desire to excel—whether in size, originality or decoration—often leads to insincerity in design, or an artificial, forced arrangement of the interior for the sake of exterior attractiveness.

Now beauty and utility are not necessarily things apart, and neither need be obtained at the expense of the other. The architect who understands his business, who knows his materials and appreciates the possibilities of site and plan, can usually find some way of adjusting the practical elements so that the result will please the eye as well as satisfy all utilitarian requirements. And he will find, as a rule—especially in small homes—that simplicity is the factor most likely to guide him toward the attainment of homelike and appealing charm.—Frank Chouteau Brown in "The Craftsman."

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

OLD FRENCH HARDWARE

By Louis XIV's day iron had largely disappeared. The finest brass articles were chased and gilded. In the former process, Italian workmen, hundreds of whom were employed in Paris, excelled; but in the latter no one surpassed the French. No matter how fine the chasing, the object was spoiled unless the finish were perfect. Louis XIV, XV and XVI styles required gilding as their finish, and it was under these reigns that the masters of gilding became famous, working at a deadly process with no apparatus for protecting themselves against its deleterious fumes. This was "mercury gilding," of most brilliant highlights against a dull background—beautiful, but so dangerous to obtain that it in time gave way to the less lovely but safer "nitrate gilding." Mercury gilding is still applied in France, the workmen being protected from the fumes by a device none too satisfactory; in New York the process is prohibited altogether.

The old-time craftsmen were right in considering the finish as highly important; yet in much of our modern commercial ware an attempt is made to dispense with the cost of finishing by combining it with the casting in one process. A further attempt at cheapening is to substitute varnished and tinted zinc for better metal; so that one must look well to this question of hardware and remember the ship that was spoiled to save a ha'p'orth of tar.

Lamour, "the incomparable Lamour," as the King called him, it another locksmith who left a huge book full of designs, and whose splendid "grilles" can be seen on the too-little-known public square of the old city of Nancy. The descendants of LePautre, another great locksmith of centuries ago, are to-day a well-known Parisian hardware firm.

Louis XIV.

Louis XIV hardware was heavy, in keeping with the massive interiors it was designed for; but when his long reign came to an end the nation, tired of his heavy and pompous formalities, leaped into an extreme of gaiety. Louis XV hardware consequently is marked by lightness and grace, even to the point of excess of ornamentation. Louis XVI styles are more restrained and may claim elegance for their distinguishing feature (though one might doubt this after seeing some of the modern stock patterns labeled Louis XVI). This King was himself a master in lock mechanism and naturally took great interest in the subject of hardware. It is by his period that most of our modern work is prompted.

In addition to these recognized styles there is the modern hardware that has no prototype—the designs of contemporaneous French sculptors. Among these the work of the late M. Charpentier stands pre-eminent. Some beautiful examples—even, I believe, a whole case of them—are in the Metropolitan Museum of New York. It may interest visitors

to the Brooklyn Academy of Music to notice that all the many doors of the main floor have been fitted with Charpentier's "music" panels as finger plates; and it may be of further interest to note that through some error in filling the order these plates were sent over from Paris all alike, instead of being in pairs as they were designed; that is, instead of two musicians, each one's body bent in opposing curves to make the proper effect as the doors stand closed, there is only one musician, so that the same curve of the body is repeated over and over on every door. It is none too easy to reach a proper understanding when the two firms concerned are on the two sides of the Atlantic.

Tarry-Brindeau is another modern who has brought hardware back into the realm of art and has created objects full of that spirit that characterized it when designer and artificer were one. Unlike Charpentier he does not use the figure but goes to nature for his inspiration. Out of a sheet of metal that he seems to twist and knead in his fingers comes a chestnut or a lily or a rose embodied in a door knob or a hinge. With these names that are well known in Paris one must mention George F. Krasser, of Boston, a maker of iron hardware of such beauty and originality that it will surely win a place beside that of Charpentier in the Metropolitan Museum.

Having mostly sash windows here instead of casements, and but few double doors, we have small use for the French "cremone" bolts and "espagnolettes" that add so much richness to a French interior. Our American firms make them, however; and if the purchaser looks to it that the pins catching and releasing the bolt are made of steel—the best tempered steel—the home product will last as long as the imported. The turning of the pin is the whole test of a good "cremone" bolt; brass pins wear out in no time. The steel "cremones" on the east casements of the Louvre work as well to-day as on that horrible night when Charles IX opened one of them to give the signal for the massacre of St. Bartholomew.

Colonial and Georgian.

Above are enumerated the sources of modern hardware, excepting Colonial, which is of English Georgian origin. While the French still take high rank it is not necessary to import hardware. That which is in the New York Public Library, and which is of the same high standard of excellence as everything else in that epoch-making building, was all designed and made in this country; but, there was no need of "skimping" in its production. American firms have constantly this tendency to fight against on the part of their customers; and besides, many other difficulties that the great workers of the past were ever free from. Then, architect, cabinet-maker, and metal-worker all consulted together step by step; nowadays they are wide-

ly separated, highly "specialized," and the hardware and the door it is to adorn never meet until the house is near completion. There they are put together by still another workman, who is trying to do his best, but who often does not seize the exact intention of the designer. Moreover, in the case of specially-ordered hardware the representative of the firm concerned frequently has to make many visits to the architect to convince him of the impracticability of his designs, for in these days of specializing, architects are none too well acquainted with the feasibility of what they draw on paper; then the representative takes up the matter with the general contractor and tries to wrest from him the name of the man who is actually making the doors (for the architect, dealing only with the contractor, is never told who is really doing the work); and finally, after lengthy discussions with the cabinet-maker and lengthy correspondence backwards and forwards, duly stamped and approved by a horde of go-betweens (who know nothing of the matter and care less) the doors are equipped with their metal fittings. This is no exaggeration of the amount of energy expended to get a good hardware job done to-day, in spite of the ready communication of railroads and telephones that did not exist in the olden times when the best of hardware was made.

But above all, let us not go to a dealer's in utter ignorance of the whole subject of hardware.—"House Beautiful."

WALLPAPER IN DECORATION.

If wallpaper, as we view it today, ever had an actual beginning, one where its natal day could be fitted into its chronological niche, that exact period is lost to all authoritative chroniclers, says *The Decorators' and Painters' Magazine*.

Many attempts have been made to fix the time of the advent of this aristocrat of our decorative equipment, but no sooner is an early date offered as the certain one than further groping discloses evidence enough to uphold the claim to greater antiquity.

Most investigations, however, carry the trail to the Orient, from which land so many art treasures came and we have good authority for the claim that paper wall decorations were brought to Europe from China by the trading companies, and they certainly strongly influenced, if they did not inspire, the earliest forms of wallpapers.

Certainly the pronounced Chinese feeling in the flower forms of early French and English decorative fabrics tells of the wide influence of Chinese art over the artists of that time. In fact, the impulse was so strong that it lingers to this day and still tinctures the work of the modern designer.

In the time of Elizabeth hangings were placed at a considerable distance from the wall, offering security for eavesdroppers, and since the arras tapestries were largely used, such circumstances as the one attributed to Philip of Spain gave rise to the expression "from behind the arras."

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Recent Trade Literature

A number of reasons why Sheldon's slate should be used as a roof covering are set forth with considerable detail in an interesting folder issued by the F. C. Sheldon Slate Company, Granville, N. Y. Reference is made to the fact that Sheldon's slates are a natural rock product and are therefore exceedingly durable. The point is also made that they will not rust, decay-crack, disintegrate, melt, burn, or smolder, and that they will neither contract nor expand under influence of heat or cold. The slates are produced in natural colors—red, green, purple and black, and when desired combinations made up of the four colors can be used for the purpose of carrying out architectural color schemes or for the enhancement of artistic effects and surroundings.

* * *

Those who are interested in knowing how hand saws are made can obtain a great deal of accurate information from a little pamphlet which is being sent out under the above title by Henry Disston & Sons, Philadelphia, Pa. The book explains all steps from the melting of the steel to the shipping of the finished goods. From the standpoint of the information contained it is undoubtedly one of the most valuable little works ever issued for those interested in saws. It is profusely illustrated by means of half-tone engravings showing various stages of the work.

* * *

Among the many important contracts which P. & F. Corbin, New Britain, Conn., have recently secured is that for furnishing the hardware for the new Adams Express Company's building in lower Broadway. This it will be recalled is a thirty-two-story structure extending through the block to Trinity Place, the architect being Francis H. Kimball, well-known to readers of this journal. Another large builders' hardware contract recently obtained by the company is for the Western Union building at Broadway and Dey Streets and which with the contract for the builders' hardware trim to go into the new Equitable Building, New York City, mentioned in these columns at the time it was secured some months ago, constitute the largest being put through at present in this city for builders' hardware.

* * *

The Alpha Portland Cement Company, Easton, Pa., is sending out a very attractive cata-

logue relating to its product, the text being printed in Spanish. It is illustrated by numerous half-tone pictures, some of which show the company's plants at Alpha, N. J.; Mountain Creek, Pa.; Manheim, W. Va., and Cementon, N. Y. A beautiful double page group of pictures show eight bridges in the construction of which Alpha Portland Cement was used.

* * *

National Sheet Metal Roofing Company, 339 Green St., Jersey City, N. J., has issued an announcement calling attention to "What Inflammable Roofs Did for Salem" in the great fire which visited that historic city on June 25 of the present year, burning over 295 acres, destroying 20 large factory plants and over 1,000 homes and other buildings. The company takes this occasion to call attention to the time tested Walter's and Cooper's Metal Shingles and presents a picture of houses ten feet apart in the district visited by the fire, showing the fireproof value of buildings covered with the shingles in question.

* * *

The Northwestern Compo Board Company, with headquarters at Minneapolis, Minnesota, call attention to the fact that the carpenter who understands Compo Board construction is in a position to take advantage of the steadily growing demand for this wall and ceiling covering. With Compo Board the carpenter can work the entire wall or ceiling himself, and thus secure credit for the beauty of the finished interior. In order, however, to obtain the best results with Compo Board it is necessary to know how to put it up. This can be ascertained through the Companies Builders' Service Department, which will keep the carpenter and builder posted on every phase of Compo Board construction. Copies of the literature which will be sent him upon request may open a new field of profit for him in the construction of walls and ceilings.

* * *

An attractive booklet bound in paper covers, the front one of which is embossed to represent the tile wall of a bathroom, and in which is set a sanitary medicine cabinet, is being distributed by the Hess Warming & Ventilating Company, 1201 Tacoma Building, Chicago, Ill.

The right-hand pages throughout are devoted to illustrating several of the styles of the Hess steel medicine cabinet, or bathroom lock-

er, the idea being to give them much the appearance they would have in actual use. The cabinets are made of enameled steel which does not warp, shrink, swell, sag or open in the joints. It is non-absorbing and will not stain. The inside being enameled is easily kept clean and in case it becomes marred or dingy it may be re-enameled.

* * *

Berry Brothers, Detroit, have just issued "Varnish Specifications" for architects' use, giving the specification for various woods and various uses. They give the following facts on covering capacities:

"A gallon of varnish will cover approximately 600 square feet, one coat.

"A gallon of shellac will cover from 500 to 600 square feet.

"A gallon of water stain covers about 500 square feet on open-grained woods, and on close-grained hard woods, 50 square feet more; on soft woods a gallon will cover from 400 to 500 feet.

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When a sound passes into air of a different density, part of it is reflected back toward its source and the rest turned in a different direction from that toward which it was originally headed, says *The Pittsburgh Post*. The result is that if a sound encounters many such changes of density in its course it may be as seriously weakened as if a wall of glass intervened. Recent experiments show that these facts explain why so many halls are hard to hear in.

In many theatres the air, particularly when the principal source of ventilation is near the footlights, forms a sort of curtain between the stage and the auditorium, and makes it very difficult to hear what the actors are saying. A slight motion of the air often has a good effect on a hall's hearing qualities and a nearly ideal condition is approached when there is a current flowing from the stage to the auditorium, carrying the voices of the actors with it.

The acoustics of a hall are poorest when it contains several layers of air of different temperatures and densities, for at each layer sounds are reflected and refracted in a way that weakens their power or causes confusing echoes.

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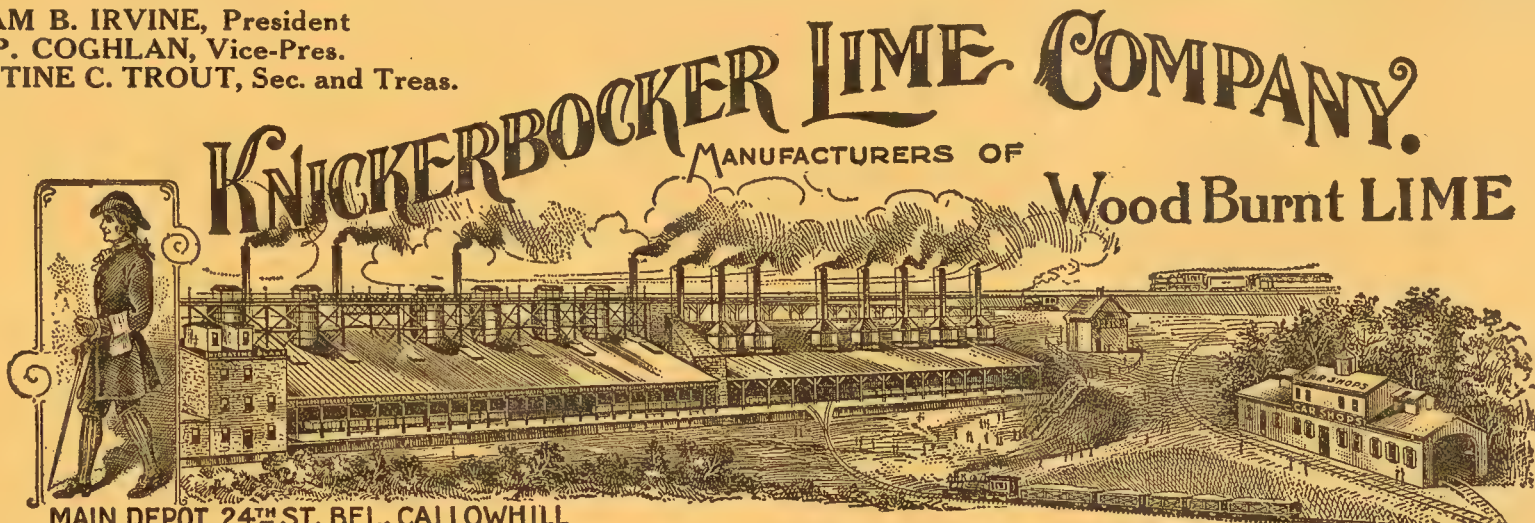
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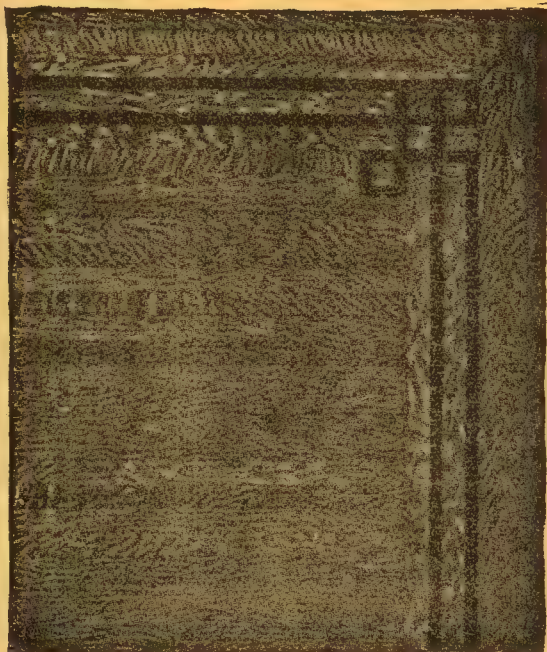
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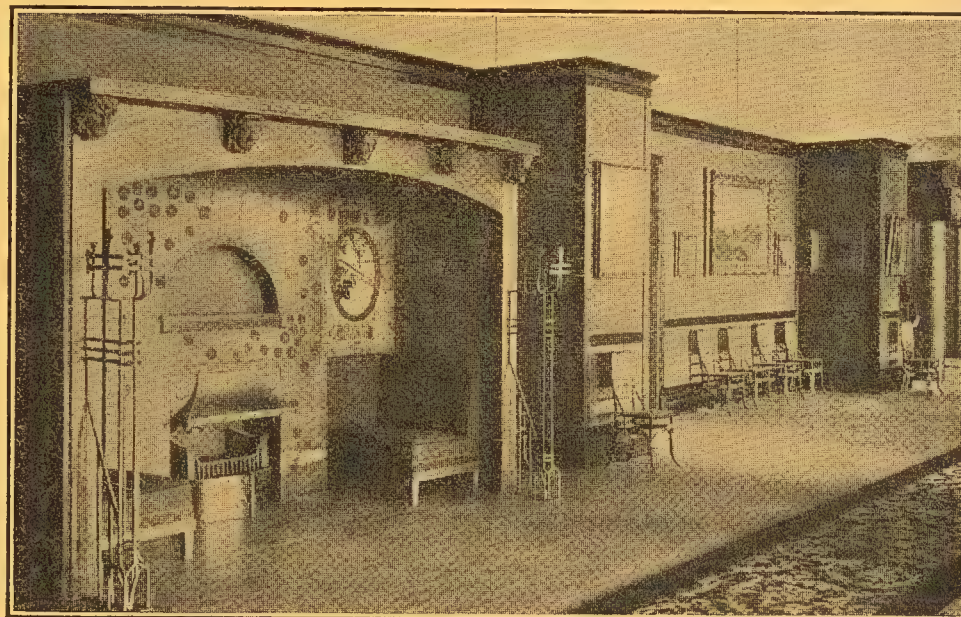
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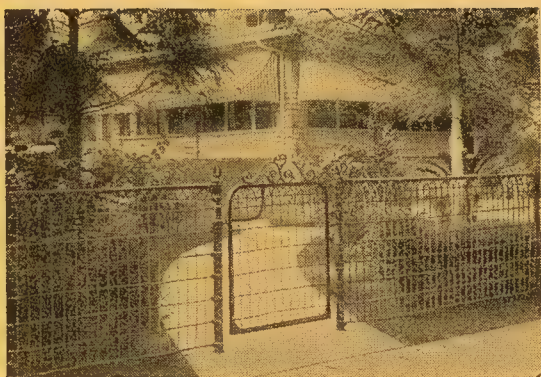
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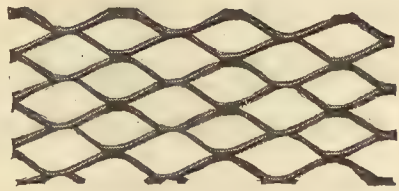
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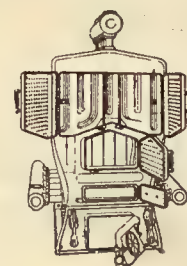
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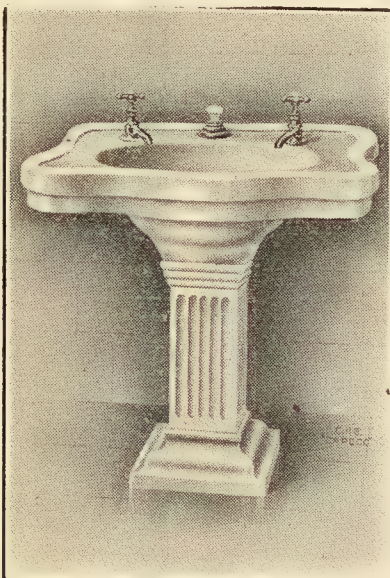


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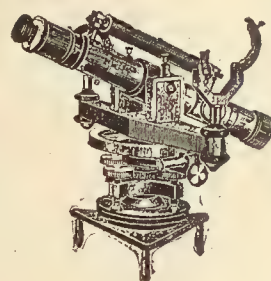
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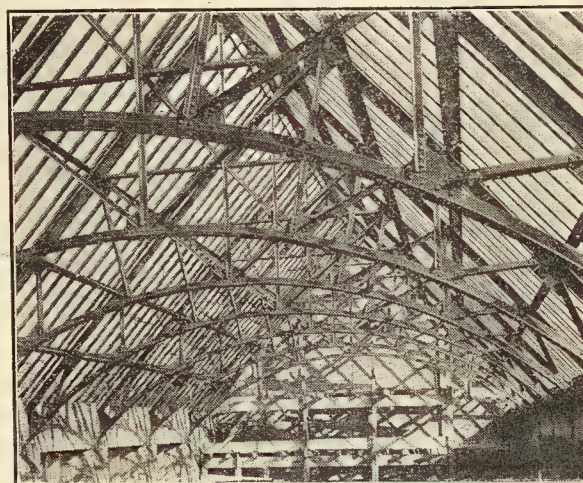
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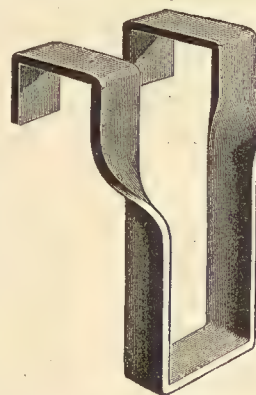


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Vol. XXIX., No. 40.

PHILADELPHIA, WEDNESDAY, OCTOBER 7, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Marine Barracks (alt. and add.), League Island, Philadelphia. Architect, private plans. Owner, United States Navy, care of Public Works, League Island, Philadelphia. Consists of new porch, copper roof. Owners taking bids October 10th. Edw. Fay & Sons, 2 South Mole street, Philadelphia, is figuring.

Factory, Trenton and Allegheny avenues, Philadelphia. Architect, private plans. Owner, Specialty Eng. Co., Emerald and Cornwall streets, Philadelphia. Brick and concrete, 1 and stories, 90x100 feet, slag roof, steam heating, electric lighting, metal sash and frames. Owners taking sub-bids.

Park Improvement Work, City of Philadelphia. Architect, private plans. Owner, Department of Public Works, Bureau of City Property, City Hall, Philadelphia. Consists of cement pavement, concrete curb and flag pole, located at Market Square, Germantown; Black Oak Park, 52d and Pine streets; Wharton Square, 23d and Wharton streets. Owners taking bids due October 7th.

Factory, Second and Lehigh avenue, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Mfg. Co., on premises. Brick and concrete, 2 stories, 38x200 feet, slag roof, electric lighting (heating, separate bids). Architects taking bids due October 12th. The following are figuring: Geo. F. Pawling Co., Broad and Vine streets; Harrison C. Rea Co., 1027 Wood street; Arthur H. Williams & Sons, 419 Locust street; A. R. Raff, 1635 Thompson street; Enos L. Seeds, 6314 Wissahickon avenue; Wm. Steele & Sons, 1600 Arch street; A. L. Fretz & Sons, 1222 Chancellor street; Roydhouse-Arey Co., Fidelity Building, and Charles Gilpin, Harrison Building, all of Philadelphia.

Residence, Chew and High streets, Germantown, Philadelphia. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Name withheld. Stone and plaster, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting. Architects taking bids due October 9th. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; L. D. Stites, 126 Herman street; F. B. Davis, 240 N. 16th street; Joel W. Hut-

ton & Co., Harrison Building; I. A. Dunkelberger, 71 E. Herman street; W. J. Stevens, Inc., Wyncote, Pa.; James J. Dobbins Bros., Germantown avenue and Gravers Lane, all of Philadelphia.

Residence (alt. and add.), Wissahickon avenue and Manheim street, Germantown. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Paul E. Sutro, Coulter and Fox streets, Philadelphia. Brick and plaster, 2½ stories, tin roof. Consists of interior alteration and addition. Architect has received bids.

Residence (alt. and add.), Sixty-third and Master streets, Philadelphia. Architect, private plans. Owner, Robert S. Pettit, on premises. Brick, 3 stories, 16x100 feet, slag and tin roof, hot water heating, electric lighting, composition floors. Owner has received bids.

Residence (alt. and add.), 2024 Spruce street, Philadelphia. Owner, E. H. Coates, on premises. Brick and stone, 4 stories. Consists of two new bay windows and interior alteration. Architect has received bids.

Sub-Station, West Philadelphia Station, Philadelphia. Architect, Wm. H. Cookman, Broad street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad street Station, Philadelphia. Brick and concrete, 2 stories, 33x66 feet, metal sash and frames, composition roof. Owners taking bids due October 7th. The following are figuring: Chas. Gilpin, Harrison Building; W. W. Lindsay, Harrison Building; Roydhouse-Arey Co., Fidelity Building; Irwin & Leighton, 126 North Twelfth street; Brann & Stuart Co., Commercial Trust Building; H. H. Wehmeyer, 1004 West Lehigh avenue; Fidelity Construction Co., Heed Building; A. L. Carhart, Hale Building; the Title Construction Co., Lancaster, Pa., and W. D. Steinbach & Sons, Lewistown, Pa.

Residences (4), Alle nLane and Lincoln Drive, Philadelphia. Architects, Duhring, Okie and Zeigler, Bailey Building, Philadelphia. Owner, Dr. Geo. Woodward, North American Building, Philadelphia. Stone and frame, 2½ stories, 22x35 feet, slate and tile roof, hot water or steam heating, electric lighting. Plans in progress.

Rectory, Twelfth and Spring Garden streets, Philadelphia. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owner, Church of the Assumption, Rev. J. Smith, on premises. Stone and brick, 3 stories, 40x50 feet, wing, 20x31 feet, slate and slag roof, electric lighting, hot water heating, metal lath. Architect taking bids due October 8th. The following are figuring: Jacob Myers & Sons Co., Witherspoon Building; M. L. Conneen & Co., 2015 Cuthbert street; Monaghan & Losse, 214 South Twelfth street; H. E. Baton, Twelfth and Sansom streets; Wm. R. Dougherty, 1610 Sansom street; Melody & Keating, Bailey Building; John McShane, 631 North Seventeenth street; W. J. McShain, 417 South Thirteenth street; D. W. O'Dea, 5219 North Fifth street, all of Philadelphia.

Water Supply System, Milnor and Homestead streets, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Hellwig Silk Dyeing Co., Ninth and Buttonwood streets, Philadelphia. Consists of stand pipes, storage tanks, sprinkler and gravity and pressure tanks. Architect is taking bids.

Residence, Logan, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, J. H. Clarke, Jr., care of architect. Stone, 2½ stories, 33x53 feet, slate and canvas roof, oak floors (heating and electric work, reserved). Architect has received bids.

Residence (alt. and add.), East Washington Lane, Germantown. Architects, Evans and Warner, Witherspoon Building, Philadelphia. Owners, Misses Cope, on premises. Stone, 2½ stories, 24x30 feet, shingle roof, canvas roof (heating and lighting, reserved). Architect taking bids due October 7th. H. H. Burrell, 1204 Chancellor street, is the only bidder.

Manse, Tenth and Kimball streets, Philadelphia. Architects, Chas. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Italian Presbyterian Church, care of Rev. A. Stasion, on premises. Brick and stone, 2 stories, 32x32 feet, slag roof, steam heating,

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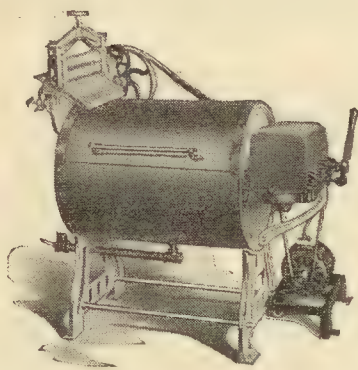
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Store and Apartment (alt. and add.), 2627 Kensington avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, D. Singman, 7155 Germantown avenue, Philadelphia. Brick, 3 stories, 17x63 feet, slag roof, hot air heating, electric lighting, hardwood floors. Plans in progress.

Parish House, Germantown avenue and Greene street, Germantown. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Trinity Lutheran Church, care of Rev. L. DeYoe, 5300 Germantown avenue. Brick and plaster, 2½ stories, 60x90 feet, slate roof, hot water heating, electric lighting. Revised plans in progress.

Sub-Station, Arsenal Bridge, Philadelphia. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and terra cotta, 2 stories,

35x52 feet, composition roof, metal sash and frames, waterproofing. Owners taking bids, due October 13th. The following are figuring: Charles Gilpin, Harrison Building; Roydhouse-Arey Co., Fidelity Building; Irwin & Leighton, 126 North Twelfth street; Brann & Stuart, Commercial Trust Building; H. H. Wehmeyer, 1004 West Lehigh avenue; Fidelity Const. Co., Heed Building; W. W. Lindsay, Harrison Building; Armstrong & Latta, Land Title Building; William R. Dougherty, 1610 Sansom street; Charles McCaul Co., 1713 Sansom street; F. J. Boas, 201 North Broad street, all of Philadelphia.

Picture Theatre, Frankford avenue and Columbia avenue, Philadelphia, \$40,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. M. Kennedy, Jr., Mutual Life Building, Philadelphia. Brick and terra cotta, 1 story, 82x152 feet, slag roof, steam heating, electric lighting, metal lath. Revised plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Convent Building, Oak Lane, Philadelphia. Architects, Maginnis & Welsh, Boston, Mass. Owner, Carmelite Convent, Oak Lane, Philadelphia. Stone and terra cotta, 3 stories, 60x154 feet, slate roof (heating and lighting, reserved), metal lath, waterproofing and damp-proofing, metal sash and frames. Contract awarded to Melody & Keating, Bailey Building, Philadelphia.

Factory, Thompson and Cumberland streets, Philadelphia. \$7,000. Architect, Chas. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Abbott Estate, Broad and Race streets, Philadelphia. Brick, 2 stories, 60x80 feet, slag roof (heating and lighting, reserved). Contract awarded to J. Richard Jackson, Perry Building, Philadelphia.

Picture Theatre, Front and Allegheny avenue, Philadelphia. \$20,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Jacob A. Ridgway, Front and Lehigh

avenue, Philadelphia. Brick and terra cotta, 1 story, 60x114 feet, slag roof, metal lath (heating and lighting, reserved). Contract awarded to J. Richard Jackson, Perry Building, Philadelphia.

Store and Dwelling, 617 South Sixty-second street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, J. J. Cohn, 521 South Fifth street, Philadelphia. Brick, 3 stories, 20x80 feet, slag roof, hot water heating, electric lighting, metal lath. Contract awarded to M. Bakst, 1540 North Sixth street, Philadelphia.

Factory, Eighty-fourth and Eastwick avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, Eastern Lamp Co., 227 Gaskill street, Philadelphia. Brick, 1 story, 40x125 feet, slag roof, steam heating, electric lighting. Contract awarded to Jos. Bobb, 1902 South Alder street, Philadelphia.

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Theatre (alt. and add.), Seventeenth and Montgomery avenue, Philadelphia. \$1,700. Architect, private plans. Owners, Grand Opera House, on premises. Brick, 1 story, electric lighting, metal lath. Consists of interior alteration. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Warehouse (alt.), and New Siding, Twtney-fifth and Sedgley avenue, Philadelphia. \$15,000. Architect, private plans. Owner, Acme Tea Co., Fourth and Noble streets, Philadelphia. Brick and concrete, 1 story, slag roof. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Power House and Garage, Boston avenue and York street, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, A. Schoenhut Co., on premises. Brick, concrete and steel, 1 story, 50x125 feet, slag roof, waterproofing, metal frames and sash. Contract awarded to Haibach Contracting Co., Twenty-sixth and Thompson streets, Philadelphia.

Power House, Boston avenue and York streets, Philadelphia. \$13,000. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, A. Schoenhut Co., on premises. Brick, concrete and steel, 1 story, 54x125 feet, slag roof, waterproofing, metal frames and sash. Contract awarded to Philip

Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia. (Note change.)

Store and Office Building (alt. and add.), 29 South Sixteenth street, Philadelphia. \$8,700. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Louis Levi, Real Estate Trust Building, Philadelphia. Brick, 3 stories, 18x99 feet, slag roof, electric lighting, parquet floors, metal lath, dampproofing (heating, reserved). Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

Residence (alt. and add.), Overbrook, Pa., \$5,000. Architect, T. H. Atherton, Jr., Wilkes-Barre, Pa. Owner, W. L. MacCoy, Real Estate Trust Building, Philadelphia. Stone and brick, 2 stories, 20x35 feet, shingle roof, hot air heating, electric lighting. Contract awarded to Alfred James, Bala, Pa.

Dairy, Forty-fifth and Parrish streets, Philadelphia, \$60,000. Architects, Stuckert & Sloan, Crozer Building, Philadelphia. Owners, John W. Scott Dairies, Forty-fifth and Parrish streets, Philadelphia. Brick, concrete and steel, 2 stories, 84x161 feet, slag roof, metal lath, waterproofing, rolling steel shutters, metal sash and frames (heating and lighting separate bids). Contract awarded to Metzger & Fisher, Denckla Building, Philadelphia.

PENNSYLVANIA

Construction News

Department Store (alt. and add.), Harrisburg, Pa. \$25,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, Bowman & Co., Harrisburg, Pa. Brick and terra cotta, 7 stories, 28x105 feet, slag or inlaid slate roof, steam heating, electric lighting, waterproofing and dampproofing, metal lath. Plans in progress. Architect will take bids about January 1st.

Warehouse, Lewisotwn, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Whitman & Swarz, Harrisburg, Pa. Brick, 5 stories, slag roof, electric lighting, elevator. Plans in progress.

Ice Cream Factory, York, Pa. \$15,000. Architect, J. A. Dempwolf, Centre Square, York, Pa. Owner, York Sanitary Milk Co., North George and Jefferson streets, York, Pa. Brick and concrete, 2 stories, 60x60 feet, tile roof, steam heating, electric lighting, tile work, waterproofing and dampproofing. Plans in progress.

School, Quarryville, Pa. \$15,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner Board of Education, David R. Forbes, secretary, Quarryville, Pa. Brick, 1 story, 70x110 feet, slate and tin roofs, warm air heating, electric lighting, waterproofing and dampproofing, slate blackboards. Plans in progress.

Court House (alt. and add.), Carlisle, Pa. \$15,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, Cumberland County Commissioners, care of R. W. Pfeffer, Carlisle, Pa. Brick, 2 stories, 15x60 feet, tin roof, steam heating, electric lighting, tile work, waterproofing and dampproofing, new plumbing fixtures, drinking fountains, etc. Owners taking bids due October 12th.

Parochial School and Hall, York, Pa. \$15,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, St. Rose of Lima R. C. Church, York, Pa. Brick (2 stories, 50x100 feet, slate and composition roof (heating and electric work, reserved). Architect taking bids due October 10th.

Residence, Chambersburg, Pa. \$10,000. Architect, Robert A. Stair, Guardian Trust Building, York, Pa. Owner, W. H. Fisher, Chambersburg, Pa. Brick, 2½ stories, 42x30 feet, wing 18x20 feet, salte roof, hot air heating or hot water heating, gas and electric lighting, metal lath, tile work, hardwood floors. Architect taking bids.

Factory, York, Pa. \$15,000. Architect, private plans. Owner, H. L. Neuman, 30 South Newberry street, York, Pa. Brick, 2 stories, 65x150 feet, slag roof, steam heating, electric lighting, concrete boors. Owner taking sub-bids.

Picture Theatre, Steelton, Pa. \$25,000. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owner, M. G. Frey, Steelton, Pa. Brick, 1 story, 40x127 feet, slag roof, steam heating, electric lighting, concrete and composition boors, waterproofing and dampproofing. Owner is sub-letting all contracts.

Farm House (alts.), Whitford, Pa. \$2,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, Whitford Lodge, Whitford, Pa. Stone and frame, 2½ stories. Consists of new partitions and plumbing fixtures. Plans in progress.

Residence, Rose Valley, Pa. Architects, Philadelphia. Owner, L. Stauffer Oliver, Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 80x61 feet, tile and composition roof, composition floors (heating and

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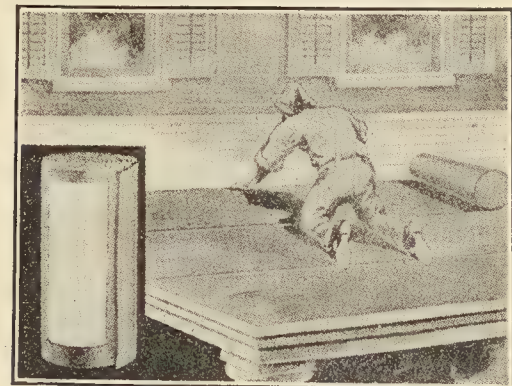
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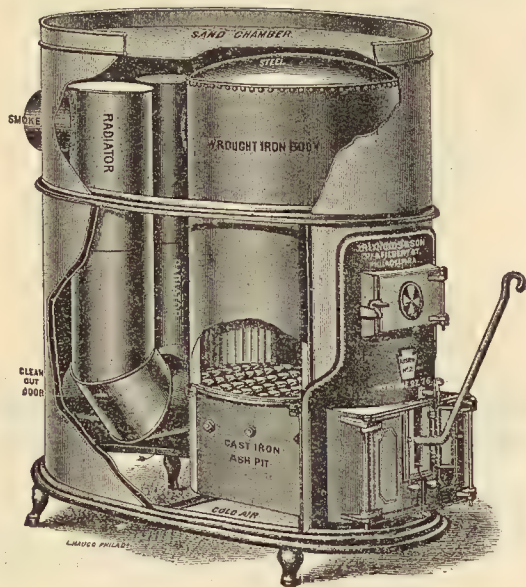
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lighting, reserved). Revised plans in progress.

Post Office, Carnegie, Pa. Architect, E. O. Wenderoth. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick and stone, 1 story and basement, 51x74 feet, tin roof, steam heating, electric lighting, metal lath, dampproofing. Owner taking bids due October 27th. Joel W. Hutton Co., Harrison Building, Philadelphia, is figuring.**Garage (alt. and add.), Bryn Mawr, Pa.** Architect, private plans. Owner, Isaac Morris, on premises. Stone, 2 stories, 25x35 feet, shingle roof. Builder, Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, taking sub-bids.**Residence (alt. and add.), Bristol, Pa.** Architect, A. H. Macintire, 5712 Rodman street, Philadelphia. Owner, A. H. Macintire, 5712 Rodman street, Philadelphia. Stone and frame, 2½ stories, 25x33 feet, shingle roof, electric lighting, oak floors, steam heating. Architect taking bids due October 8th. In addition to those previously reported, Specht & Sperry, Heed Building, and F. L. Hoover & Sons, 1923 Cherry street, Philadelphia, are figuring.**Residence and Garage, Villa Nova, Pa.** Architects, Charles Willing and Furness, Evans Company, Provident Life Building, Philadelphia. Owner, Edgar B. Howard, Real Estate Trust Building, Philadelphia. Stone and plaster, 2½ stories, 35x125 feet, slate roof, hot water heating, electric lighting, oak floors. Architects taking bids due October 12th. The following are figuring: J. S. Cornell & Sons, 2011 Market street; J. B. Flounders, 1329 Arch street; Stacy Reeves & Sons, 2011 Market street; E. J. Hedden, Penn Square Building; Wm. R. Dougherty, 1610 Sansom street; A. Whitehead, Inc., 1624 Latimer street; J. Sims Wilson, 1125 Brown street; A. L. Fretz & Son, 1222 Chancellor street, all of Philadelphia; J. D. Lengel, Wayne, Pa.**Warehouse, Chester, Pa.** Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Stevenson Co., 1500 West Fourth street, Chester, Pa. Brick, 1 story, 95x180 feet, slag roof. Architects taking bids due October 13th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; Stacy Reeves

and Sons, 2011 Market street; Smith-Hardican Co., 1606 Cherry street, all of Philadelphia; Nolan Bros., 524 Market street; V. Mercadante, 224 West Second street; Amos P. Sheaff, 302 East Fifth street, all of Chester, Pa.

Residence and Garage, Wawa, Pa. \$60,000. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Florence E. Wood, 2211 St. James Place. Stone, 3 stories, 50x110 feet, slate roof (heat and light, reserved). Architects have received revised bids.**Drug Store (alts.), Reading, Pa.** \$5,000. Architect, private plans. Owners, Riker-Hegeman Co., 340 West Fourth street, New York City. Consists of new front and interior alterations, tile work, electric lighting, store fixtures. Plans in progress. Owners will soon take bids.**Residence (alt. and add.), Melrose Park, Pa.** Architect, Herbert C. Wise, Franklin Building, Philadelphia. Owner, Hiram Buchborn, Melrose Park, Pa. Stone, 2½ stories, copper roof, hot water heating. Consists of new sun parlor. Architect received bids October 6th.**Residence, Drexel Hill, Pa.** Architect, H. B. Peterson, 34 South Seventeenth street, Philadelphia. Owner, T. W. Barnhill, 1224 North Fifty-ninth street, Philadelphia. Stone and frame, 2½ stories, 40x60 feet, slate and canvass roof, vapor vacuum heating, electric lighting, oak floors. Architect taking bids, due October 13th. H. E. Grau Co., 1709 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; J. H. Davis, 5100 Westminster avenue, and J. K. Ingram, Lansdowne, Pa., are figuring.**Residences (30), Cynwyd and Bala, Pa.** Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owners, Cynwyd-Bala Realty Co., Cynwyd, Pa. Stone, brick, plaster and frame, 2½ stories, shingle and slate roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress. Owners will take sub-bids.**Farm House (alt. and add.), Glenhardie, Pa.** Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, John R. K. Scott, Morris Building, Philadelphia. Stone, 2½ stories. Consists of general alterations. Plans in progress.

PENNSYLVANIA

Contracts Awarded

School, York, Pa. \$30,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, Board of Education, David N. Crider, secretary, 512 South Water street, York, Pa. Brick and terra cotta, 2 stories, 82x91 feet, slag roof, safety hollow tile and concrete

fireproofing, metal lath, safety treads, composition floors, slate blackboards. Contract awarded to Casper H. Oerman, 614 W. Poplar street, York, Pa.

School, York, Pa. \$40,000. Architect, Robert A. Stair, Guardian Trust Building, York,

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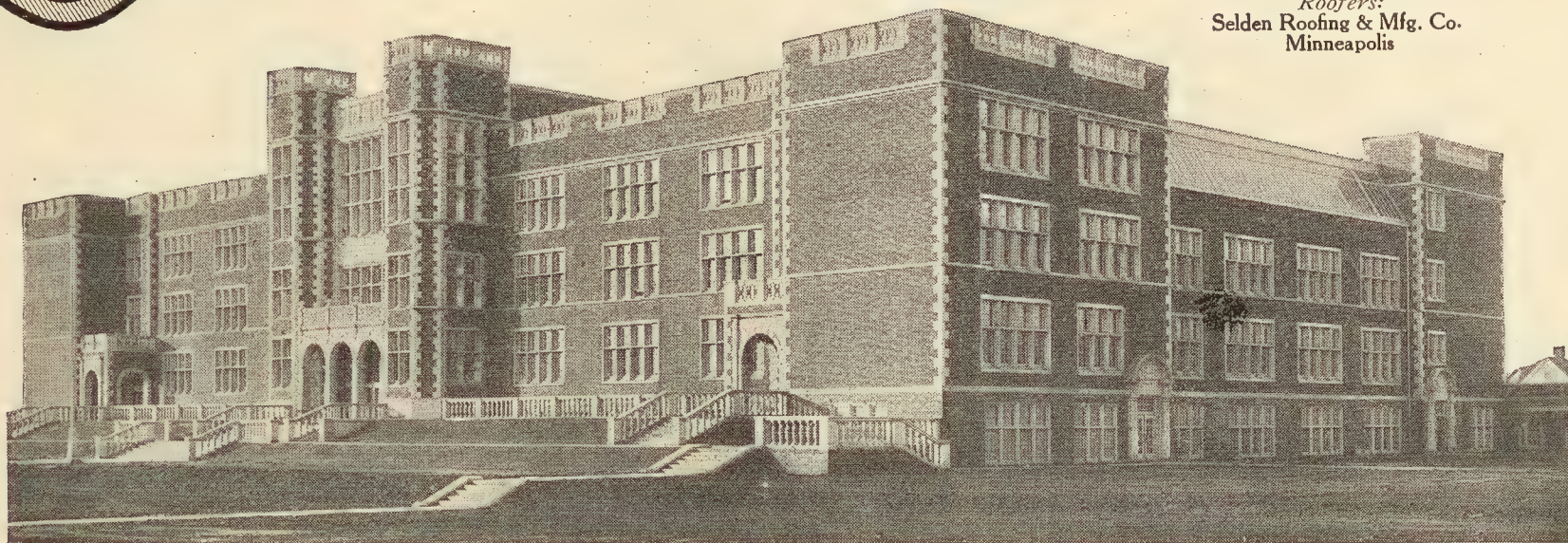
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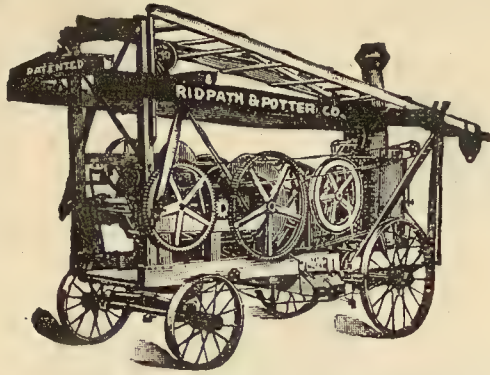
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Pa. Owner, Board of Education, David N. Crider, secretary, 512 South Water street, York, Pa. Brick and terra cotta, 2½ stories, 80x110 feet, slag roof, hollow tile and concrete fireproofing, metal lath, safety treads, composition floors, slate blackboards. Contract awarded to Casper H. Oerman, 614 West Poplar street, York, Pa.

Residence, Aquaduct, Pa. \$7,000. Architect, Thomas M. Kelker, 16 North Second street, Harrisburg, Pa. Owner, J. Boman, Aquaduct, Pa. Frame, 2 stories, 32x40 feet, shingle roof, hardwood floors (heating and lighting, reserved). Contract awarded to E. A. Fleisher & Son, Marysville, Pa.

Factory (alt. and add.), York, Pa. \$20,000. Architect, John B. Hamme, Wiest Building, York, Pa. Owner, Otto Eisenlohr & Bros., 932 Market street, Philadelphia. Brick, 4 stories, 42x90 feet, slag roof, steam heating, electric lighting, concrete and wood floors. Contract awarded to Samuel F. Glatfelter, Small Building, York, Pa.

Residence, York, Pa. \$15,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, George L. Stranahan, York, Pa. Brick and hollow tile and plaster, 2½ stories, slate roof, gas and electric lighting, metal lath, metal weather strips, hardwood floors, tile work (heating, reserved). Contract awarded to Samuel F. Glatfelter, Small Building, York, Pa.

Residence, Radnor, Pa. \$75,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Paul Denckla Mills, Bryn Mawr, Pa. Stone and plaster, 2½ stories, 138x77 feet, slate roof, hardwood floors (heating, plumbing and electric work, reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Dormitory and Green house, Ambler, Pa. Architect, private plans. Owner, School of Horticulture for Women, Ambler, Pa. Stone, 3 stories, 20x60 feet, shingle roof, hot water heating, electric lighting. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia, who is taking sub-bids.

Store Building (Remodeling), Lancaster, Pa. \$18,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Frederick Engle, Lancaster, Pa. Brick and terra cotta, 3 stories, 32x150 feet, slag roof, electric lighting, hardwood floors (heating, reserved). Contract awarded to Isaac Witmer, Lancaster, Pa.

Sheep House, Oreland, Pa. \$5,000. Archi-

tecs, Stewardson and Page, 320 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Oreland, Pa. Frame, 2 stories, 51x28 feet, shingle roof, waterproofing. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residence and Garage, Haverford, Pa. \$150,000. Architect, H. Brooks Price, 105 West Fortieth street, New York City. Owner, Dr. Archibald G. Thomson, New Stock Exchange Building, Philadelphia. Hollow tile and stucco, fireproof, 3 stories, 115x67 feet and 57x27 feet, tile and copper roof, vapor heating, electric lighting, enameled bricks, metal lath, waterproofing, composition floors, kalamein doors, 12 bath rooms. Contract awarded to George & Borst, 277 South Eleventh street, Philadelphia.

Residence, Easton, Pa. \$30,000. Architect, Wm. Michler, Easton, Pa. Owner, F. R. Drake, Easton, Pa. Stone, 2½ stories, 33x100 feet, slate roof, hot water heating, gas and electric lighting, tile work, hardwood floors, metal lath. Contract awarded to A. A. Bechtel, Easton, Pa.

Residence, Easton, Pa. \$20,000. Architect, Wm. Michler, Easton, Pa. Owner, J. E. Matthews, Easton, Pa. Stone and brick, 2½ stories, 38x100 feet, slate roof, hot water heating, gas and electric lighting, tile work, hardwood floors. Contract awarded to W. F. Danzer, South Bethlehem, Pa.

Factory, Easton, Pa. \$10,000. Architect, private plans. Owners, Binney Smith & Co., Easton, Pa. Brick, 3 stories, 56x168 feet, slate roof, steam heating, electric lighting. Contract awarded to H. D. Folkenson, Easton, Pa.

Sanitarium (add.), Cresson, Pa., \$180,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, State of Pennsylvania, Department of Health and Charities, care of Dr. S. G. Dixon, 1900 Race street, Philadelphia. Stone, fireproof, 4 stories, 100x200 feet. Consists of west ward building and connecting building, slate roof, metal lath, waterproofing (heating, lighting, ventilating and plumbing separate bids). Contract awarded to Connors Bros. Co., 17 West Forty-second street, New York City.

Residence (alt. and add.), Bala, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, William T. Connor, Bala, Pa. Stone, 1 story, 10x20 feet, shingle roof, hot water heating. Contract awarded to Cynwyd Const. Co., Cynwyd, Pa.

NEW JERSEY Construction News

Dairy Barn and Stable, Vineland, N. J. \$13,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Corrections, Trenton, N. J. Brick and stucco, 1 story, 41x90 feet, and 89x36 feet, slag roof, electric lighting, cork bricks. Owners received bids October 7th.

Administration Building (alts.), Vineland,

House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Corrections, Trenton. Consists of interior alterations, slag roof, laundry machinery, electric lighting. Owners received bids October 7th.

Drug Department (alts.), Vineland, N. J. \$4,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Correction, Tren-

ton, N. J. Consists of alterations to drug department. Owners received bids October 7th.

Custodial Cottage, Vineland, N. J. \$18,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, State of New Jersey Training School, Vineland, N. J. Brick and stone, 1 and 2 stories, 60x120 feet, slate roof, extension of steam heating, gas and electric lighting, composition floors. Plans about completed. Owners will advertise for bids in two weeks.

Residences (2), Atlantic City, N. J. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, M. W. Newton, Eighth and Chestnut streets, Philadelphia. Brick, plaster and hollow tile, 2½ stories, 52x83 feet and 35x84 feet, slate and canvas roofs, vapor vacuum heating, electric lighting, oak floors, metal lath, waterproofing. Architects taking bids, due October 19th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; T. C. Trafford, 1613 Sansom street; George L. Sipps, 912 Locust street; Lam Building Co., all of Philadelphia; H. B. Miller, Edgewater Park, N. J.; W. S. Higbee, 112 South Carolina avenue, and Hampton Bros., 4403 Atlantic avenue, both of Atlantic City.

Bottling House and Stable, Burlington, N. J., \$5,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Brick, 1 story, 40x60 feet, slag roof, steam heating, electric lighting, concrete floors. Plans about completed. Owner will take bids in a few days.

Residence, Trenton, N. J., \$10,000. Architect, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, R. C. Kolb, 407 West State street, Trenton, N. J. Brick and stucco, 2½ stories, 30x65 feet, tile roof, gas and electric lighting, hardwood floors, tile work (heating reserved). Architects taking bids, due October 9th. The following are figuring: Ed. D. LaRue, 53 South Hermitage street; A. W. Chapman, 218 West End avenue; I. Harper Clayton, American Mechanics' Building; Burton & Burton, American Mechanics' Building; S. W. Mather & Son, American Mechanics' Building, all of Trenton, N. J.

Twin Residence, Lawrenceville, N. J., \$4,000. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J. Owner, Diocese of Trenton, Trenton, N. J. Frame, 1½ stories, 28x40 feet, slate roof steam heating, gas lighting. Architect taking bids, due October 8th. The following are figuring: A. J. Trier, Stephan Diekneit, Joseph Drugan, C. J. Smith, H. J. Thorpe, all of Trenton, N. J.

New Jersey

Contracts Awarded

Residence, Collingswood, N. J., \$6,000. Architects, Moffett & Stewart, Jessup Building, Camden, N. J. Owner, W. Earle Powel, Merchantville, N. J. Hollow tile and stucco, 2 stories, 40x60 feet, slate roof, hot water heating, gas and electric lighting, oak floors. Contract awarded to A. K. H. Doughty, Collingswood, N. J.

School, Pennsgrove, N. J. \$25,000. Architects, Moffett and Stewart, Jessup Building, Camden, N. J. Owner, Board of Education, Thos. M. Hunt, Chairman Building Commission, Pennsgrove, N. J. Brick, limestone trimmings, slate blackboards, metal lath (heating, separate bids). Contract awarded to Abel Bottoms & Sons Co., 41 South Fifteenth street.

Stores and Apartments, Princeton, N. J., \$25,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Cornelius O. Dennen, Princeton, N. J.

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Brick, stone trimmings, 3 stories, 53x52 feet, slag roof, steam heating, gas and electric

lighting, tile work. Contract awarded to M. Dennen, Princeton, N. J.

MARYLAND Construction News

Armory, Belair, Md. \$30,000 Architect, John B. Hamme, Wiest Building, York, Pa. Owner, State of Maryland, Major M. A. Rickord, Belair, Md. Stone, 1 and 2 stories, 65x145 feet, composition roof, vapor heating, electric lighting, tile work, waterproofing and dampproofing. Owners taking bids due October 12th, at noon. The following are figuring: Berry-Goodwin Co., Drexel Building; H. L. Brown, 1714 Sansom street, of Philadelphia; Singer-Pentz Co., Equitable Building, J. Wilson Richardson, 24 Commerce street; J. Henry Miller, Eutaw and Franklin streets; Henry S. Rippel, 7 Clay street; J. L. Robinson Construction Co., Knickerbocker Building; G. Walter Tovell, Eutaw and McCulloh streets, all of Baltimore, Md; Eline Bros., Littlestown, Pa.; J. Wahlen, Clayton R. F. D., Belair, Md.

Dormitory Building, Frederick, Md. \$50,000. Architect, John B. Hamme Wiest Building, York, Pa. Owner, Hood College, Frederick, Md. Brick stone trimmings, 3½ stories, 40x150 feet slate roof, vapor heating, electric lighting, tile work, metal lath. Contract awarded to Lloyd C. Culler, Frederick, Md.

Power House and Tunnel, Cleveland, Ohio. Architect, Frederic H. Betz, Cleveland, Ohio. Owner, Cleveland City Hospital, Cleveland, Ohio. ;Brick, concrete and steel, fireproof, 1 story, 93x83 feet, composition roof, slag glazed bricks, metal sash, waterproofing and dampproofing. Owners taking bids due October 9th. James H. Wells, Heed Building, Philadelphia, is figuring.

Armory, St. Paul, Calvert, Twentieth and North avenue, Baltimore, Md. \$450,000. Architect not yet selected. Owner, State of Maryland, care Armory Commission, Mayor James H. Preston, City Hall, Baltimore. Harry C. Jones, Chamber of Commerce, Baltimore and Charles streets; F. Macklin, Maryland Trust Building, Baltimore. Brick, stone, concrete and steel, fireproof, 2 stories, slate

roof, steam heating, electric lighting. Architect will soon be selected.

Warehouse (alt. and add.), Albemarle and Granby streets, Baltimore. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, Maryland Dairy Co., 2055 East Pratt street, Baltimore. Brick, 2 stories, slag roof, electric lighting. Owner taking bids. The following are figuring: Consolidated Engineering Co., Calvert Building; C. L. Sotekhausen & Co., Gay and Water streets; Fidelity Construction Co., 1906 W. Lexington street; Nathan Zeiger, 6 North Ann street; Wm. H. Porter & Son, 505 Forrest street, all of Baltimore, Md.

Residence, Pikesville, Md. \$10,000. Architect, Laurence Hall Fowler, 347 North Charles street, Baltimore. Owner, Bolling Barton, care of architect. Frame, 2½ story, 35x46 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Hermosa avenue, Baltimore, Md. \$3,000. Architect, S. H. Webb, Title Building, Baltimore, Md. Owners, Webb & White, Title Building, Baltimore, Md. Frame, 2½ stories, stone and hollow tile, slate roof, steam heating, electric lighting. Owners will sub-let all contracts.

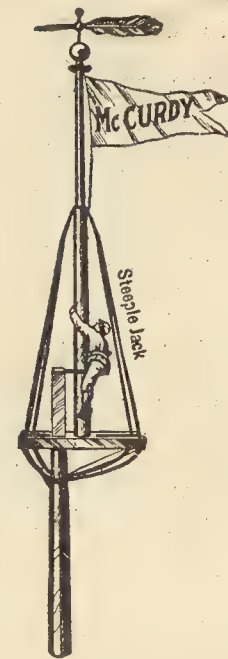
Residence, Chevy Chase, Md. \$7,000. Architect not yet selected. Owner, Jean Paul Miller, 1510 Fourteenth street, N. W., Washington, D. C. Frame, 2½ stories, slate roof, steam heating, electric lighting. Owner will soon select architect.

Post Office (alts.), Baltimore, Md. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Consists of remodeling stamp division, new windows, etc., marble work, electric wiring, metal grills, etc. Owners received bids October 6th.

Store Building (alts.), North avenue and Charles street, Baltimore. Architect, private plans. Owner, Charles W. Hurst, Old Builders' Exchange, Baltimore. Brick and frame, 2 stories, tin roof, hot water heating, electric lighting. Consists of new front and interior

Contract awarded to H. H. Maclellan, 15 East Fayette street, Baltimore, Md.

Residence, Hill Top Park, Md. \$5,000. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owner, Mrs. Beverly Matthews, Mt. Washington, Md. Frame, 2½ sto-



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ries, stone and hollow tile, slate roof, hot water heating, electric lighting. Contract awarded to Webb & White, Title Building, Baltimore, Md.

Residence, 742 Poland avenue, Baltimore, Md. \$12,000. Architect, private plans. Owner, S. C. Davis, 3818 Roland avenue, Baltimore, Md. Frame, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to Milton C. Davis, 15 East Fayette street, Baltimore, Md.

Residence, Garrison avenue, Baltimore, Md. \$6,500. Architect, private plans. Owner, J. C. Stalford, 814 East Lombard street, Balti-

MARYLAND Contracts Awarded

more, Md. Frame, 2½ stories, 32x41 feet, slate roof, hot water heating, electric lighting. Contract awarded to Henry Smith, Lauraville, Md.

Store Building (alt. and add.), 118 N. Howard street, Baltimore, Md. \$12,000. Architect, Otto G. Simonson, Maryland Casualty Building, Baltimore. Owners, Bernheimer Bros., Lexington street, near Howard street, Baltimore. Brick, 3 stories, steam heating, electric lighting. Contract awarded to Milton C. Davis, 15 East Fayette street, Baltimore, Md.

Garage and Service Building, 120 to 126 West North avenue, Baltimore. Architect, private plans. Owner, Eastwick Motor Car Co. Brick, - story, 20x100 feet and 60x100 feet, slag roof, cement floors, electric lighting, steam heating. Contract awarded to Thomas B. Stanfield Co., 212 Clay street, Baltimore, Md.

Storage Building, Highlandtown, Baltimore, Md. Architect, O. G. Simonson, Maryland Casualty Building, Baltimore. Owner, Crown Cork & Seal Co., 1511 Guilford avenue, Baltimore. Reinforced concrete, 1 story, slag roof, electric lighting, fire doors. Contract awarded to West Construction Co., Knickerbocker Building, Baltimore, Md.

Warehouse and Factory, Frederick street, between Water and Baltimore streets, Baltimore, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owners, H. H. Taylor & Son, 11 South Water street, Baltimore, Md. Brick, 2 stories, 70x33 feet, slag roof, electric lighting, concrete floors. Contract awarded to A. F. West, 15 East Fayette street, Baltimore, Md.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

M. A. Baily (O), 3860 North Marshall street. C. B. Hart (C), Eighth and Wingo-hocking streets. Cost, \$2500. One dwelling, stone, 2 stories, 16x60 feet, Loudon and C streets.

C. Keely (O), 312 West Seymour street. Cost, \$7200. Six dwellings, brick, 2 stories, 14x27 feet, Wilmot and Richmond streets. Cost, \$2200, one dwelling.

John Reed (O), 2838 E. Pacific avenue. E. J. Heinke (C), 160 West Sharpnack street. Cost, \$1800. One dwelling, brick, 2 stories, 14x28 feet, Victoria and Allen streets.

C. H. Gutavitch (O), 813 Morris street. D. Goldman (C), 746 Morris street. Cost, \$3000, dwelling, brick, 3 stories, 15x31 feet, 1813 South Second street.

Seidman & Getz (O), 1312 North Sixth street. Cost, \$20,700. Nine dwellings, brick, 2 stories, 15x29 feet, Frazier and Christian streets. Cost, \$23,000, 10 dwellings.

Mary Callahan (O), 44 Sprague street. T. McGrath (C), 5932 Catharine street. Cost, \$1600. Dwelling, stone, 2 stories, 16x32 feet, Edgewood and Wharton streets. Cost \$18,600, 19 dwellings.

P. McShane (O), 2509 North Thirty-fourth street. Cost, \$3200. Two dwellings, brick, 2 stories, 14x25 feet. Cost, \$6600, 4 dwellings. Cost, \$2200, store and dwelling. Cost, \$1800, dwelling, Onatrio and Belgrade streets.

C E. Biddle (O), Twentieth and Chelton avenue. Cost, \$17,000. Eight dwellings, brick, 2 stories, 15x30 feet, Sixty-fifth avenue and Twenty-first street. Cost, \$19,000. Nine dwellings. Cost, \$22,000, 10 dwellings.

Miscellaneous Construction News

Post Office, Fayetteville, Tenn. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Stone, brick and stucco, 1 story, tin roof, steam heating, electric lighting, metal lath. Owners taking bids, due November 10th, at 3 P. M.

Post Office, Canton, Ill. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Stone, brick and terra cotta, 2 stories, fireproof, composition roof, steam heating, electric lighting, metal lath. Owners taking bids, due November 10th, at 3 P. M.

Miscellaneous Contracts Awarded

Garage, Wilmington, Del. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, William C. Spruance, 1616 Broome street, Wilmington, Del. Brick and plaster, 1½ stories, 19x22 feet, slate roof, hot water heating, electric lighting. Contract awarded to Edward L. Johnson, 1316 Clayton street, Wilmington, Del.

Cost, \$2400, 1 dwelling. Cost, \$4800, 2 dwellings.

Mrs. Van Beil (O), Merion, Pa. S. L. Luff (C), 700 North Nineteenth street. Cost, \$2000. Dwelling, 1822 Fairmount avenue.

John Frank (O), 2065 South Cecil street. T. D. Ranzo (C), Thirteenth and Jefferson streets. Cost, \$1500, dwelling, 2249 North Broad street.

A. S. Cassel (O), 2233 North Sixteenth street. I. F. Eberle & Sons (C), Thirteenth and Jefferson streets. Cost, \$1500, dwelling, 2249 North Broad street.

Franklin Grocery Co. (O), Penn and Unity streets. B. White Co. (C), Perry Building. Cost, \$3000, Warehouse, Penn and Unity streets.

Spreckels Sugar Co. (O), Reed and Meadow streets. Cost, \$2700, manufacturing building, Reed and Meadow streets.

Samuel Gross (O), 630 Tasker street. Jos. Farbstein (C), 908 Walnut street. Cost, \$1000, store and dwelling, Eighth and Berks streets.

F. J. Fink (O), 717 Moore street. S. Rosenberg (C), 716 Morris street. Cost, \$1300, store and dwelling, Shunk and Alder streets.

T. Martin & Co. (O), Tacony, Philadelphia. Wm. Ratcliffe (C), 1521 Arrott street. Cost, \$5000, manufacturing building, Milnor and Cottman streets.

Samuel Rader (O), 721 South Fifty-First street. S. Yellin (C), 616 North Seventh street. Cost, \$775, store and dwelling, 622 South Fifty-sixth street.

Quaker City Rubber Co. (O), Comly and

Milnor streets. S. S. Wilmer (C), 3211 Comly street. Cost, \$3600, Garage, Comly and Mil-

A. A. Branagan (O), 537 Erie avenue. T. B. J. Branagan (C), 537 Erie avenue. Cost, \$2,500. Store and dwelling, brick, 2 stories, 19x45 feet. Cost, \$12,000. Six dwellings, Danier and Luzerne streets.

A. Schoenhut Company (O), Sepvia and Adams streets. P. Haibach Contracting Co. (C), Twenty-sixth and Thompson streets. Cost, \$13,000. Boiler house, brick, 1 story, 54x57 feet, 2158 Boston street.

W. K. Devictor (O), Overbrook, Philadelphia. J. G. Sharp (C), 6139 Torresdale avenue. Cost, \$5,800. Four dwellings, brick, 2 stories, 14x30 feet, 6112 to 20 Gillespie avenue. Cost, \$3,200. Two dwellings, brick, 2 stories, 14x30 feet.

Alterations and Additions

Acme Tea Co. (O), Fifth and Noble streets. A. L. Carhart (C), Hale Building. Cost, \$12,000. Storage, Twenty-fifth and Sedgley avenue.

E. J. Spangler (O), 1235 North Howard street. J. T. McCorkell (C), 2104 North Fifth street. Cost, \$2,000. Manufacturing, 1235 North Howard street.

Kahn & Greenburg (O), Morris Building. E. H. Reuss, Jr. (C), 921 South Forty-sixth street. Cost, \$1,000. Residence, 2427 North Broad street.

Samuel Wilensky (O), 826 Reed street. L. M. Shestack (C), 322 Dickinson street. Cost, \$2,800. Wagon house, 826 Reed street.

City Improvement & Realty Co. (O), 5600 Walnut street. Cost, \$9,600. Garages, 6201 to 6231 Christian street.

Louis Levi (O), 924 Real Estate Trust Building. E. J. Kreitzburg (C), 1345 Arch street. Cost, \$8,700. Store and dwellings.

J. J. Cohn (O), Fifth and South streets. M. Bakst (C), 1640 North Sixth street. Cost, \$4,000. Store and dwelling, 617 South Second street.

Mrs. J. Moore (O), 2318 North Howard street. M. Morrison (C), 2322 North Howard street. Cost, \$2,000. Garage, 2323 Waterloo street.

St. John's Home (O), Twenty-ninth and Allegheny avenue. J. Myers & Sons Co. (C), Witherspoon Building. Cost, \$3,500. Home, Twenty-ninth and Allegheny avenue.

E. & J. Shackleton (O), Chelton and Anderson street. A. M. Lance (C), East Haines street. Cost, \$1,600. Store and dwelling, Chelton avenue and Anderson street.

F. Lotz (O), 1825 South Front street. J. W. Rusk (C), 1804 Wolf street. Cost, \$4,000. Dwelling, 1833 to 41 South Front street.

City of Philadelphia (O), City Hall. Eugene Tourison (C), 1001 Chestnut street. Cost, \$2,450. Fire house, Fourth and Girard avenue.

J. J. Felin & Co. (O), 4142 Germantown avenue. J. M. Smith & Son (C), 1425 Spring garden street. Cost, \$600. Manufacturing, 4142 Germantown avenue.

F. P. Buckley (O), 1936 East Cumberland street. J. Barberry (C), 2610 Amber street. Cost, \$3,450. Store and dwelling, 2653 Kensington avenue.

Estate of F. P. Mellon (O), Bryn Mawr, Pa. G. C. Dougherty (C), 1725 Ludlow street. Cost, \$2,000. Offices, 1711 Sansom street.

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Treasury Department, Supervising Architect's office, Washington, D. C., September 23, 1914.—Sealed proposals will be received in this office until 3 P. M., October 22, 1914, and then opened, for a conduit and wiring system and lighting fixtures at the United States appraiser's warehouse, New York, N. Y., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Supervising Chief Engineer, U. S. Custom House, New York, N. Y., in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 1, 1914.—Sealed proposals will be opened in this office at 3 p. m., November 10, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of a two-story and basement stone, terracotta, and brick-faced building of 6,000 square feet ground area, fireproof except roof, composition roof, for the United States post office at Canton, Ill. Drawings and specifications may be obtained from the custodian at Canton, Ill., or at this office, in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

NOTICE TO CONTRACTORS.

NEW COUNTY BUILDING FOR NEW CASTLE COUNTY

and

NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions in the Church Building, at the corner of Market and Tenth sts., in the city of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time), on the 20th day of October, 1914, for the Rolled Steel Windows, for the carpentry and cabinet work, for the plastering and imitation stone work, for the metal furring and lathing, for the glass and glazing, for the electric elevators, for the magnacite floors, for the cork floors, for the vault doors, and for the tile work, entering into the construction and completion of the New County Building for New Castle County and of the New Municipal Building for the city of Wilmington, situated between King street and French street, and between Tenth street, and between Tenth street and Eleventh street, in the city of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings for each department or class of work above listed.

Each proposal for Rolled Steel Windows shall be accompanied by a certified check or cash deposit in the amount of four hundred dollars (\$400.)

Each proposal for Carpentry and Cabinet work shall be accompanied by a certified check or cash deposit in the amount of one thousand five hundred dollars (\$1,500.)

Each proposal for Plastering and Imitation Stone Work shall be accompanied by a certified check or cash deposit in the amount of one thousand dollars (\$1000.)

Each proposal for Metal Furring and Lathing shall be accompanied by a certified check or cash deposit in the amount of five hundred dollars (\$500.)

Each proposal for Glass and Glazing shall be accompanied by a certified check or cash deposit in the amount of two hundred dollars (\$200.)

Each proposal for Electric Elevators shall be accompanied by a certified check or cash deposit in the amount of five hundred dollars (\$500.)

Each proposal for Magnacite Floors shall be accompanied by a certified check or cash deposit in the amount of one hundred dollars (\$100.)

Each proposal for Cork Floors shall be accompanied by a certified check or cash deposit in the amount of one hundred dollars (\$100.)

Each proposal for Vault Doors shall be accompanied by a certified check or cash deposit in the amount of fifty dollars (\$50.)

Each proposal for Tile Work shall be accompanied by a certified check or cash deposit in the amount of two hundred dollars (\$200.)

The Commission to reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty per cent. (50%) of the amount of the contract.

On and after October 6th, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of fifty dollars (\$50.); this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before November 1, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY,

Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

MORE OR LESS PERSONAL.

Mr. Harry Kahn, manufacturers' representative, formerly located at No. 1625-26 Real Estate Trust Building, has removed to new and larger quarters at No. 217 North Fifteenth street, where he will carry a complete stock of builders' and hardware specialties, including Duplex Post Caps and Joist Hangers, Gardner Sash Pulleys and Columbian Hardware Co.'s Products.

* * *

Robert Wilson Pollock has opened offices for the practice of architecture at 1802 Chestnut street, Philadelphia. Mr. Pollock will be glad to receive samples and catalogues of building materials and appliances.

* * *

Harrison & Schreiber, hydraulic and sanitary engineers, specializing in sewage purification and water supply, announce the removal of their offices to Suite 725 and 726 Commercial Trust Building, Philadelphia.

* * *

Announcement is made of the resignation of Mr. Alonzo Steinmetz as vice-president and secretary of the Joseph Bird Company, the well-known firm of building contractors. The Bird Company will still maintain their offices at 213 North Eleventh street, Philadelphia, under the presidency of Mr. James M. Tighe.

* * *

The main office of the Loomis-Manning Filter Distributing Company has been removed from the Land Title Building to their new factory at Thirty-seventh and Reed streets, Philadelphia. The Philadelphia salesrooms will remain as now located, at 131 South Sixteenth street.

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Irving Dillon. Editor

PHILADELPHIA, PA., OCTOBER 7, 1914.

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Editorial Comment

The Philadelphia "Public Ledger" is obviously not familiar with Irving K. Pond's brilliant essay, "Art and Individuality." The "Ledger" seems to think that the few really distinctive things, architecturally speaking, have been done centuries ago, and that all that now remains is the application of these ideas along modern lines. Discussing "The Pathos of Novelty in Architecture," the "Ledger" observes:

"Although securely jailed only the other day, the Futurist leaders are evidently at large again. Otherwise, how explain the distinctly Futurist assertion that the wrecking of Gothic cathedrals 'merely clears the ground for still nobler architectural triumphs'?"

"Whereas, whoever hath an eye can see that architecture's brilliant future lies behind it. Every new style in architecture is a foregone flunk, and the sooner we make up our minds to it the smaller the waste of ingenuity, temper and good building materials. The creative effort ends as might an attempt to rewrite Jevons or tinker Euclid. Only a few architectural forms can give pleasure. - Those forms were found, all of them, ever and ever so long ago.

"Nothing is so pathetically comical as recent European experiments toward novelty in architecture. Art-nouveau buildings, the designers call them, but what the buildings call the designers 'would nawt be fit to be printed, Hinnessy.' Back to the old forms, then, not because they are old, but because no others satisfy.

"Happily, just this is the purpose of our American architects. Rather than risk originality, they go in for inspired adaptation. Instead of producing, they reproduce. Our really splendid edifices are either adaptations or copies, and it was with justice that a critic lately remarked, 'What is an architect? A man who buys a picture postcard abroad for two cents and sells it in America for \$84,000.'

"Quite proper! In consequence, we shall soon have replicas of all that is finest in Europe. If the Europeans go on shooting up the originals and replacing them with absurdities it will but hasten the day when European professors of architecture will say to their students, 'Take our advice, young gentlemen. See America first.'"

* * *

It is a trifle depressing to find a newspaper of respectable antecedents indulging in this flippant and belittling view of American architecture.

Such phrases as "Every new style of architecture is a foregone flunk"; "Only a few architectural forms can give pleasure. Those forms were found, all of them, ever and ever so long ago"; "Our really splendid edifices are either adaptations or copies," and "What is an architect? A man who buys a picture postcard for two cents and sells it in America for \$84,000," are unworthy of a newspaper

which in the hands of its former proprietors was looked up to as a cultural force in the community. Our Colonial type of architecture is neither a copy nor an adaptation. Some of our country house work is as distinctive and as redolent of charm as anything the Old World has to offer. Our skyscrapers are in many respects original and agreeable departures from the ancient models. No one at all familiar with the beautiful dream palaces designed for the Panama Exposition can question the promise of American architecture. We shall be disappointed if the architects of Philadelphia permit this flippant and ill-considered estimate of American architecture to pass unrebuked. If it was intended for humor, it is humor of a questionable and wholly pointless variety. As a serious deliverance it amounts to a deliberate slap in the face to one of the noblest of professional callings.

The "Ledger" classes the architect as a kind of amiable plagiarist whose function it is to make over the ideas of other men—a copyist and imitator revamping old plans to meet new conditions. And holding such views, the "Ledger" attempts to curry favor with the profession it thus flouts and humiliates by running from time to time a page devoted to "architects and architecture." What a beautiful and impressive exhibition of modern journalistic inconsistency!

May we commend to Mr. Curtis and his bumptious young editorial subordinates a careful reading of Mr. Pond's "Art and Individuality"?

* * *

Joseph Pennell has traveled the highways and byways of the Old World. Gifted with the artist's eye, the artist's sense for color and grace and charm and compatibility, Mr. Pennell is qualified as few living men may be said to be qualified, to pass an opinion on the art value of the little vistas here and there in his path. Recently Mr. Pennell was at Panama. Here is what he has to say about "the big ditch":

"I went to Panama because I believed that in the making of the greatest work of modern time I should find my greatest inspiration.

"The day I landed in Colon I found it. I had seen great cranes at Pittsburgh and Duisberg, but nothing like that which stretched its great arm, with great claws, over the sad, silent swamp of Mount Hope—the end of De Lesseps' dream. I had seen in New York, as I sat on the thirtieth story of the Metropolitan Building, a chain come up from below with a man clinging to it. But I had never imagined anything like the group of figures which rose out of Gatun lock at dinner time. I had looked into chasms and gulfs, but I never imagined anything so terrific as the gates of Pedro Miguel. I had seen the greatest walls of the oldest cities, but I never imagined anything so imposing

as the walls of Miraflores lock. I had seen the great aqueducts and great arches of the world, but I never imagined anything like the approaches to Gatun and the spring of Pedro Miguel, made by army officers and civil engineers mainly to save material. For there are no architects, no designers, no decorators on the Panama Canal—just engineers and organizers—Goethals, Gaillard, Gorgas, Williamson, Bishop and more. But the engineers at Panama are great designers. Great work is great decoration.”

* * *

“Sheet Metal,” discussing composition roofing and its value as a fire-retardant covering, remarks:

“Perhaps in Philadelphia composition roofs are laid as they should be. In New York there is much of this class of work done in a very cheap and shoddy manner. Less than three years ago the writer had his shop in a very old downtown building. There was a fire on the top floor that called for the firemen to rip up a part of the roof. The landlord found that he could have a new so-called ‘slag roof’ laid for less money than he could have a tin roof repaired. The tin roof was in fair condition, although it had evidently been put on some fifty or sixty years ago.

“The contractor certainly did a cheap job. This job, which was ‘guaranteed for ten years,’ was a one-ply roof, except where the sheets lapped. One thickness of one-ply tar paper stuck together with tar and smeared over with a lick and a promise was a poor substitute for an old tin roof.

“The foreman on the job was extremely profane if anyone walked on any part that had been put down, and requested the tenants in the building not to go on the roof. He confided in the writer that he was diligently praying that the bill for the roof would be paid before it rained. He laughed and said that the ten-year guarantee secured the job, and explained that he could do a good job if he was paid to.”

A cheap job is a cheap job regardless of the nature of the material. We have seen cheap tinning that wasn't worth the money it cost to apply it. Composition roofing, properly applied, is mighty good roofing; tin likewise. The choice between them isn't much one way or the other. And as for retarding fire, a good slag will prove as serviceable against this danger as tin, tile or slate. Few roofs take fire from the outside. No roof is of any special value against a fire from the inside. And all the argument “Sheet Metal” or anybody else can bring forward won't materially alter the facts.

STANDARDIZATION OF ADVERTISING MATTER

Committee of American Institute Recommends Uniform and Convenient Forms for Manufacturers' Printed Matter.

Every architect would appreciate a convenient library of manufacturers' catalogues and bulletins, but owing to a total lack of standardization of size and character of advertising matter, such a library cannot now be formed.

The committee believes that a satisfactory filing system can become possible only by the general adoption of a standard size of page, preferably the 8½ by 11-inch sheet, in combination with a system of separate catalogues or bulletins for each item of manufacture, which could be filed together with other items of similar character, under the proper titles, and placed in the files in alphabetical order.

With the adoption of the vertical method, filing become a simple matter, and such a file would be as convenient for reference as an encyclopedia; in fact, a vertical filing drawer would become a veritable encyclopedia of building materials and specification memoranda, which, when fully perfected by the introduction of a standard system of indexed guide cards, would be of inestimable value to the architect.

Today, there are sundry schemes for the placing of catalogues in the office files, by outside parties, whose incentive is that of obtaining a fee from the advertiser. All are familiar with the huge and unwieldy per-

manently bound volumes of extracts from the catalogues of advertisers, whose matter may or may not appear in the next issue.

Owing to the incompleteness of such schemes, the architect is obliged to maintain other files to take care of catalogues not included in the catalogue agent's system, as well as for new matter which is continually being received. Manufacturers complain of these methods, realizing that, no matter to how many advertising schemes they subscribe, they must also issue catalogues so as to cover the entire field, as well as for circulation to the general public.

In order to procure a permanent filing of their advertising matter, manufacturers are not only ready, but anxious, to furnish catalogues and bulletins in size and form convenient to architects.

If the American Institute of Architects would favor the adoption of a standard size, and a practical system of cataloguing, it would be unhesitatingly adopted by the great majority of manufacturers, and in a short time practically all catalogues and bulletins for architects would be issued in conformity with the institute's requirements.

There are many reasons in favor of the adoption of the 8½x11 inch page as the standard of size for all catalogues and bulletins, and for the adoption of a systematic

series of independent bulletins, especially in connection with a detailed alphabetical (and topical) system of sub-indexing under main titles, for groups of bulletins, such as builders' hardware, plumbing goods, electrical fittings.

While the so-called pocket size catalogue cannot be expected to cover the entire field, it can serve a sufficiently useful purpose to warrant its consideration. Many manufacturers find the pocket edition indispensable for distribution among the general public; and as there is no desire to limit the advertisers to the 8½x11 inch standard, it is desirable that a standard of size, preferably 3¼x8½ inches be adopted.

This size is small enough for the pocket and may be conveniently filed in standard letter filing drawers, which can be subdivided at small expense into three longitudinal compartments, equipped with follower blocks and guide cards, similar to the equipment of the standard drawers now used for filing legal papers.

The report made certain recommendations which, after slight amendment, were adopted as follows by the board:

First—That 8½x11 should be the standard size for catalogues and bulletins intended for permanent filing by architects.

Second—That all catalogues should be issued in the form of separate bulletins, each treating of but one subject.

Third—That 3¼x8½ should be the standard of size for pocket editions intended for the use of architects.

Fourth—That a complete index should be compiled, covering the entire field of building material and specialties, accompanied by full information and instructions for the use of manufacturers and architects.

Fifth—That a complete system of indexed guide cards for vertical filing should be published by the institute for the use of architects and others who may desire to avail themselves of the vertical filing system.

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A LONG ROOF.

At Butler, Pa., the Standard Steel Car Works have a great factory. It extends for over a mile, a continuous line of buildings interconnected. The roof area of the buildings is something like 750,000 square feet. A photograph of the plant takes in about half the town in the foreground. This permanent roof, which in all probabilities will be good for twenty or thirty years without a repair, is a Barrett Specification Roof.

GLAZED PORCELAIN RADIATORS.

A new type of radiator made of glazed porcelain was recently exhibited at a building exhibition in Leipzig, Germany. It is claimed that this form of radiator has a higher efficiency than the cast iron type. The general design is similar to a cast-iron radiator, except that the walls are considerable thicker. The sanitary features of its construction are emphasized.—“Heating & Ventilating Magazine.”

SOMETHING NEW IN DECORATIVE MATERIAL.

Architects have an opportunity for specifying something new in decorative and finishing material, according to advices received from the lumber trade. It is a genuine built-up wood that is cut into very thin veneers and then, under great hydraulic pressure, practically made into a solid piece of wood by the employment of a patented mica cement just perfected under a secret formula. It is being put on the market in stock sizes up to 7x15 feet without joints and in practically any kind of wood that architects are accustomed to work with.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**Varnish Manufacturers' Association will hold its annual convention in New York City during the week of October 19. Further details will be announced in a later issue.

**American Hardware Manufacturers' Association will hold its annual meeting, and convention at Atlantic City, N. J., October 28-30. Headquarters at the Marlborough-Blenheim Hotel.

**William E. Dobbins, formerly an architect in Philadelphia, Pa., died from neuritis, after a week's illness, at his summer home at Long Branch, N. J., Saturday, September 19. Mr. Dobbins was fifty-two years of age and since his retirement from the practice of his profession a few years ago has devoted his time to the management of his large estate at Long Branch. Three daughters survive him.

**International Association of Master House Painters and Decorators of the United States and Canada will hold its annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Corcoran Building, Washington, D. C., chairman of Convention Committee.

**The American Road Builders' Association is making plans to hold a joint meeting with the American Highway Association at some time during the Panama-Pacific Exposition. The meeting will be held either in San Francisco or Oakland. Committees have been formed who are working out the details.

**Second International Exposition of Safety and Sanitation will be held at the Grand Central Palace, New York City, December 12 to 19, 1914. This exposition is held under the auspices of the American Museum of Safety, and according to present plans will surpass the very successful exhibition held at the same place last year.

**The Gun-Crete Co., of Chicago, organized last May, has purchased all the rights, titles, contracts and interests of the Cement-Gun Construction Co., and have also taken over the construction department of the General Cement-Gun Co. This enlarges the scope of their business greatly. In future, the combined business will be conducted under the firm name of Cement-Gun Construction Co., with offices at 914 South Michigan avenue, Chicago, Ill. The officers of the company are Carl Webber, C. E., president; John V. Schaefer, M. E., secretary and treasurer; C. L. Dewey, construction manager. In addition to doing all forms of cement-gun construction work they will also sell and lease complete cement-gun equipments.

**Walter Farrington Wells, vice-president and general manager of the Edison Electric

Illuminating Company, of Brooklyn, was recently elected president of the Association of Edison Illuminating Companies. Mr. Wells has been prominent in the electric development of the metropolitan district. He became connected with the Brooklyn Edison Company in 1892 as a draftsman, and on the first of January, 1913, was made chief executive of the company, which, under his efficient management, has prospered exceedingly. He is known throughout the country as one of the foremost of American electrical engineers. In Brooklyn he is a member of the Crescent and Brooklyn Clubs and the Brooklyn Engineers' Club.

**National Builders' Supply Association will hold its annual convention in Chicago, Ill., February 8-9, 1915. Headquarters at Hotel Sherman.

**Paint Manufacturers' Association of the United States will hold its annual convention in New York City October 19 to 21.

**Convention of City Managers will be held in Springfield, O., December 2 to 4. Charles F. Ashburner, City Manager, Springfield, O., chairman.

HOUSE NUMBERING OF COMPARATIVELY RECENT ADOPTION.

It was in the year 1512, says the New York Sun, that the idea struck an architect to have numbers painted on houses in a certain quarter of Paris, but the idea took a long time to take root and it was not until 1789 that the system became general.

In St. Petersburg they have an excellent way of displaying the numbers of houses by little lanterns bearing the numbers on the glass, a most useful notion after dark.

The numbering of houses in London, as above shown, is of comparatively recent date, and a backward glance into the history of the metropolis shows that the convenience of the method has been gained at the sacrifice of a picturesque element in our streets.

“In the later Stuart times,” says Macaulay, “the houses were not numbered, and there would indeed have been little advantage in numbering them, for of the coachmen, charmen, porters and errand boys of London a very small proportion could read. It was necessary to use marks which the most ignorant could understand. The shops were therefore distinguished by painted or sculptured signs which gave a very gay and grotesque aspect to the streets.”

These descriptions referred to houses in comparatively well defined spots, and the difficulty of locating the poorer residents was

considerable, as during the first part of the eighteenth century the names and places were continually changing to correspond with the change of ownership or of the signs that hung in the streets. An act was passed in 1752 to compel the residents to do away with hanging signs, which had become a dangerous obstruction, and fix them to the walls of their houses. The act, however, did not include the numbering of houses, which was secured three years later in 6 George III., cap. 26.

The first instance known of a London street in which the houses were numbered is Prescott street, Goodman's Fields, but the practice did not spread far before the year 1764,

when it received a great impetus, and it soon after became well established in London.

It may be interesting to add that there is still a strong objection on the part of householders to occupy a house numbered 13. The London county council has often been requested to allow another number to be substituted, though the request is not often granted. In one instance the proprietors of a nursing home urged that if the number were not altered many superstitious patients would be afraid to go to the home and the business would suffer in consequence. In this case the council gave way and the house was numbered 12A.

THE ART OF HOME BUILDING

The essential in the art of homebuilding is the ability to suit your own tastes—to express your own nature. Your taste may not at all coincide with that of your neighbor, but that is not important. There are many individual expressions of the art that is within one as there are leaves on a tree, and there is no good reason why this expression of the individual should not continue in the home itself.

Imagine what a thrilling adventure in human nature all of us might have in the course of a day spent in making calls if our neighbors and acquaintances only allowed their souls and minds and hearts to express themselves in the houses they build and furnish! It is not hard to imagine such an adventure, for most everyone has seen one such home. But these are by no means frequently found.

For people's characters do show in their homes—in the architecture of the dwelling, the decorations within, the selection of the furniture, even in the pictures and the way they are hung. To persons who are not especially observant this fact is as plain as the fact that one can always detect the presence of feminine fingers in the arrangement of the bric-a-brac, the flowers or vase on the stand or the books and magazines on the library table. The thing is so palpably human that it is almost impossible not to recognize it.

It may never have occurred to you how bound down most of us are by conventions that someone else established without our knowledge or sanction and which may or may not represent our ideals. And still we follow them blindly. But it is a sorry fact that most people don't build their houses or their homes to fit their natures. Rather do they try to make their natures fit into the home which they pay numerous other persons to build for them. They allow themselves to be made slaves of convention, style or fashion, and their home is no more like them—no more the expression of their lives or natures—than an automobile is like a flat-bottom boat. They go to the nearest architect, who tells them what the reigning style happens to be at the moment, as if he were planning to fit them all with the latest Paris fashions

in dress or headgear. It is customary to go to an architect, of course—and probably businesslike as well—but the fact that Mrs. Jones or Mrs. Doolittle did the same thing, perhaps employed the same architect, is often the impelling motive. All of which is nothing against the architect. So far as he is concerned, he is probably eager and willing to draft plans for and supervise the construction of all the future homes in his community. The matter of individuality in that case would of necessity become secondary; everyone's house and home would be individual to an extent—to the extent of an extra cornice or a higher pitch to the roof or another dormer window or a pantry cupboard in a different place. But you find, if you analyze it, that the resulting products of the architect's blue prints is much more the expression of the architect himself than of the owners of the homes.

Then the furniture man comes to show you the latest styles and to take measurements for rugs, furniture, beds, wallpaper, tapestries and draperies. You may select so-called reigning styles and fabrics from a single catalogue without any idea of their appearance or their harmony with your ensemble of colors—much less securing any individuality. It is often a hard thing to find the latter element in furniture or fabrics even when you have an entire showroom full of it from which to make a selection. The first thing some manufacturers in this country do is to knock all the individuality out of their furniture. Add to this the widespread manufacture of cheap imitations of foreign rugs, and the combination is not the least attractive. Often this is all one has to select from—the matter of choice for the entire community is left to the questionable artistic tastes of the local dealer. Particularly is this true in the smaller communities, though it would often seem that the larger cities are almost as restricted in variety and quality.

But how does it all fit in with the character—the personal side—of the man or the woman or the family that lives in the house? The answer might be contained in still another question: How many families of your

acquaintance really belong in the houses in which they live? Do they not seem to you, from the standpoint of the kind of people they are, that they are as much strangers to the place as you yourself? They do not fit there; they should be living somewhere else—they are entirely out of tune with tapestries, furniture, decorations and all the rest of the furnishings.

Have you ever gone into a house that was furnished in rich, gay colors, with other tokens of mirth and melody, and found the family to be just the opposite—long-faced, sanctimonious, with suppressed children and no such thing as life in the entire household? The family do not fit there and you feel that you do not fit there either; there is a strained relation not only between yourself and the family, but between yourself and the surroundings. The effect must be the same on the family, for it is ill at ease, instinctively out of place.

On the other hand, the gayest people have entertained you in their sober, austere parlor and have grown stiff and formal to conform with the environment. There seems to be a curious conflict between human nature and material surroundings in such a situation. There is no freedom, no naturalness. In the very place where people should be free and natural there they are least so.

Put these people in their natural environment and you will have literally made them over.

I can hear someone say: "But this is inherently necessary—from the very nature of things. Men cannot be expected to design their houses and homes. That requires an expert trained in that special line." All of which is true.

It would be taken as an insult if one were to declare the reader too ignorant to know what he wants in the way of house planning and architecture. The chances are that he might occasionally want something that would not be within the definition of what is best and safest in modern home architecture. But most persons happen at one time or another to have lived in a house or an apartment, so that by pretty constant association with a home they have their own ideas as to how they would go about it if they were building a new place. Of course, so long as people live in flats and apartments they will never have any choice in the matter—it is all done for them before they even see the place. And still, it seems at times as if people who own their homes are given as little choice in matters of architecture, room arrangement, furnishings and the like as if they still lived in an apartment owned by someone else.

There are numberless ways in which a home may be made thoroughly individual—not only in arrangement and equipment but in the very atmosphere which permeates it. There are many ways of inexpensive revision of plans before they are finally executed; it is the duty of every homebuilder to exercise his right to his own ideas because he is the one who is most vitally affected. Perhaps this is too much individual freedom to allow the one

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who is paying the bills, but I know of at least one instance in which a woman would have been spared years of suffering had the architect's plans been more carefully scrutinized

and the high ceilings and chandeliers been altered to conform to the height of the housewife.—Mark C. Goodnow, in "House Beautiful."

GASOLINE POWER IN CONTRACTING WORK

The most important part of the equipment of the modern contractor is his power. With the increased cost of skilled labor and the development of modern concrete construction, no contractor can compete without a well developed power plant. Modern construction also demands that this plant be made up of comparatively small units, preferably working independently of each other, and easily portable from one part of a job to another; consequently, the power plant must be as light as possible. For this reason the portable steam boiler and engine has perhaps seen its best days, however efficient it may have been in the past. More and more a contractor is forced to depend upon small units of self contained power.

This has narrowed the problem down to practically two kinds of power, gasoline engines and electricity. Both of these powers have their limitations and their chosen field, but more and more the explosive engine is becoming the recognized means of power for the contractor because it is absolutely self contained and requires no connections with any outside source in order to run it.

The portable engine and boiler require both fireman and engineer, both of them skilled or semi-skilled labor, and both of them ordinarily requiring license. The steam plant must be located permanently on any job, or as nearly permanent as possible, as it is too heavy to move from place to place. The fuel is bulky, fairly expensive when bought in small quantities, and easily carried off. The power must be on at an expense during the whole working day.

If a contractor is moving his plant from one state to another he does not know that the boiler on his steam plant will pass the inspection of the state to which he is going, as special boilers are required. For instance, for Massachusetts, Ohio, Indiana, Chicago, Detroit, Wisconsin, Alberta and British Columbia. A contractor using a steam plant in New York State cannot take that outfit with its boiler into Massachusetts. A Chicago contractor having a Chicago boiler is not allowed to operate that boiler in Michigan, Indiana or Wisconsin. As contractors as a

class are more or less migratory these boiler laws are a decided hardship to them and make the use of steam power on contracting work an expensive and risky proposition.

Gasoline power, on the other hand, is absolutely self contained and independent of any outside source and does not require skilled labor to run it, nor a licensed engineer. In a great many cases it requires no attendance whatever except to renew the fuel and oil two or three times a day. When a gasoline engine is stopped the expense ceases. For its size and capacity it is easily moved from one part to another of a job, or from one job to another, without the necessity of calling on skilled labor to move it or to set it at work on its new job. Power is very easily applied to any piece of machinery from a gasoline engine as the speed is not excessive, neither is it slow running enough to require gearing up. The fuel can always be obtained at any corner grocery in any quantity that is convenient to carry or buy. It suffers very little from dust of cement or sand and gravel, and ordinarily has no open bearings to be ruined by the floating dust that is always a part of every contracting job.

The range of the gasoline engine is being increased every day and the automobile is teaching a greater number of people the fact that there is nothing intricate in its management or mechanical construction.

When a gasoline engine first came into the commercial field it was thought necessary to make it heavy and cumbersome to stand the strain of the internal combustion and to hold it in position. This idea has been exploded, and the later models of gasoline engines have been designed with all the surplus metal cut out, making them more easily portable without sacrificing their efficiency and durability. So, too, the old type of gasoline engine had to be drained of its cooling water in cold weather to prevent the freezing up and bursting of the cooling water jacket. This has been done away with in the modern tub-cooled engine, in which the water may be allowed to freeze up without danger of bursting the jacket.

The substitution of the spark plug and jump-spark ignition has simplified the gasoline engine to a wonderful degree over the old type make-and-break ignition with its complicated mechanism, repairs for which could be obtained only from the original maker, whereas the spark plug and its attachments can be bought at every garage and many hardware stores.

The fuel consumption of the modern gasoline engine is being reduced so that the cost per horse power is gradually falling and will continue to fall more rapidly in the future.

Altogether a contractor who wishes to have power that will render him independent of all outside assistance, that is easily portable, whose fuel supply is always at hand, that calls for no skilled help, and is ready to start when it is located on the job, cannot do better than use the gasoline engine.—C. E. Bement in "American Carpenter and Builder."

THE POLICY OF "SOMETHING JUST AS GOOD."

It is quite common practice in many sections of the country to find a dealer who, when he does not carry in stock certain brands or make of tools for which a prospective customer inquires, to 'hem and 'haw and reluctantly acknowledge that he does not handle that particular article, but adds that he has "something just as good." This is a practice which is obviously unfair not only to the intending purchaser, but decidedly unjust to the manufacturer of the goods for which inquiry is made. A carpenter or builder going to a hardware store and asking for a certain make of saw, chisel, brace, plane, bit, shingling hatchet or whatever the tool or device, should insist upon getting exactly what he wants and should refuse anything in the way of a substitute which is offered to him as being "just as good."

Poor tools are an abomination to the progressive and up-to-date mechanic and when his hardware dealer does not keep in stock those tools which are advertised and have been found to give entire satisfaction under the most severe tests he should request the dealer to obtain a supply for him or else he himself should negotiate direct with the manufacturer for what he wants. The best are none too good for him if he desires to continue to do good work and please his customers. They may cost him a little more perhaps at first, but their wearing qualities and general satisfaction are such that they are the most economical in the long run.

It is for this reason that the building mechanic is perfectly willing to pay a fair price for a good tool, but when he asks for it at his hardware store and is told it is not carried in stock, but that the dealer has "something just as good," it is time for him to insist upon getting what he wants and if the dealer is alive to his opportunities he will see to it that his stock is supplied with the high grade tools which the trade demands.—"Building Age."

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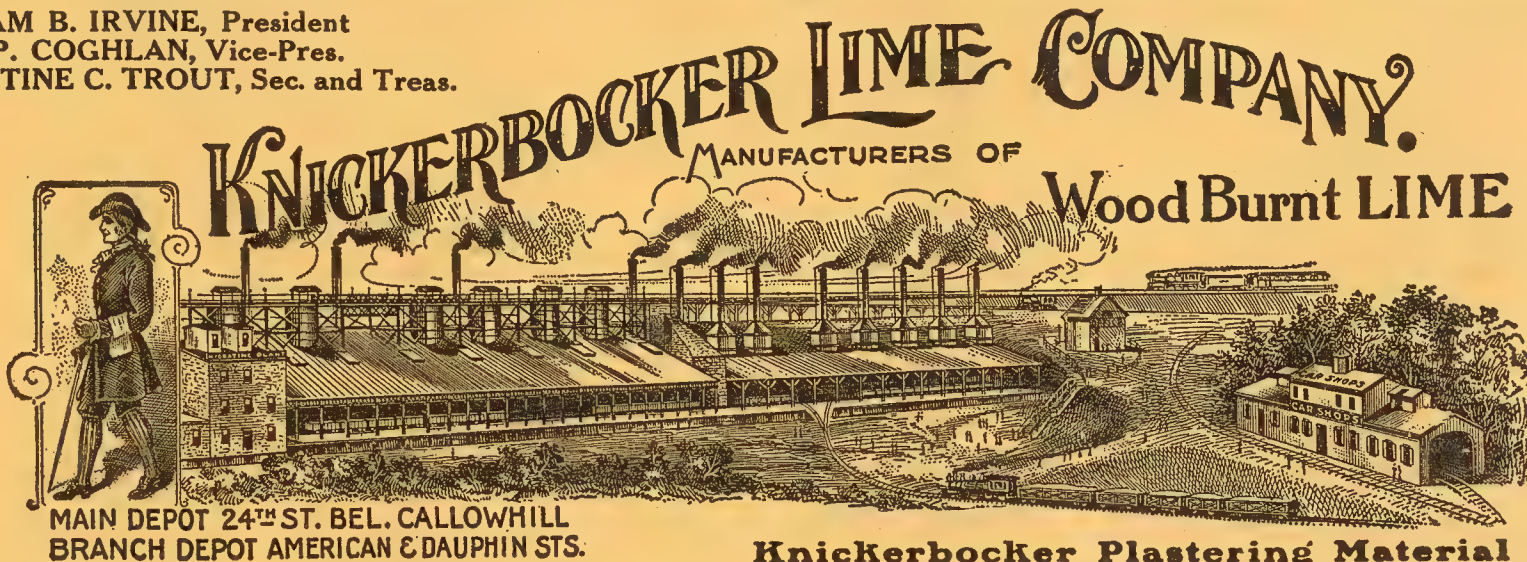
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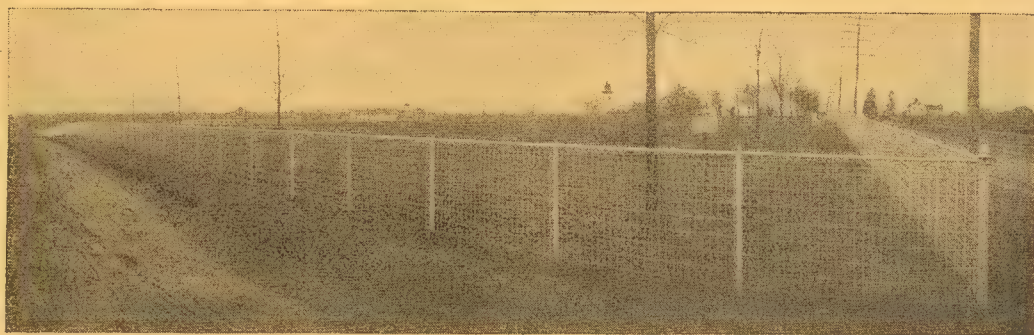
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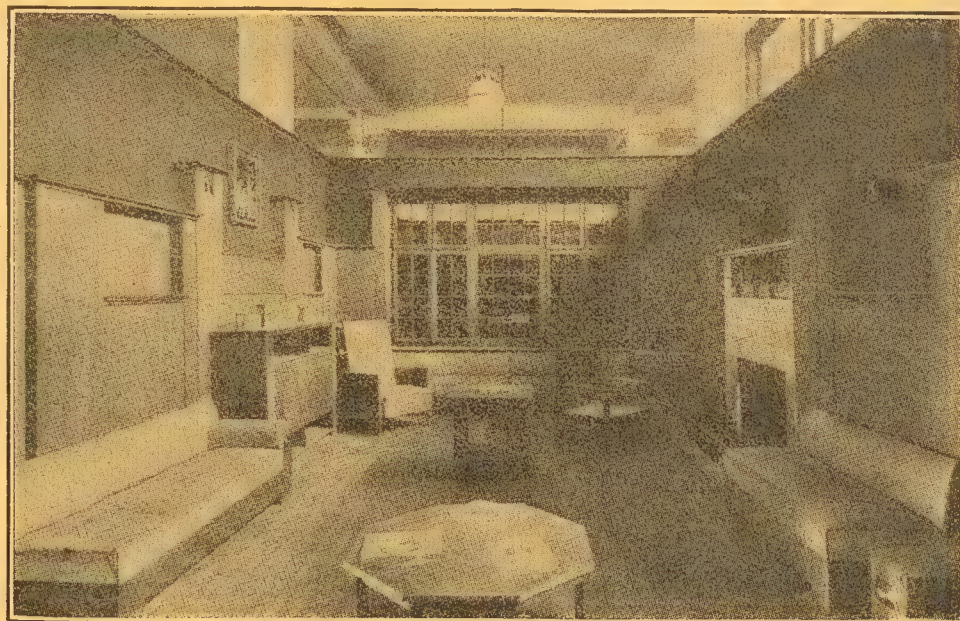
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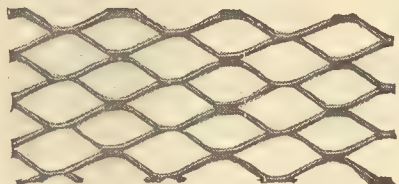
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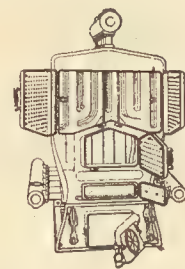
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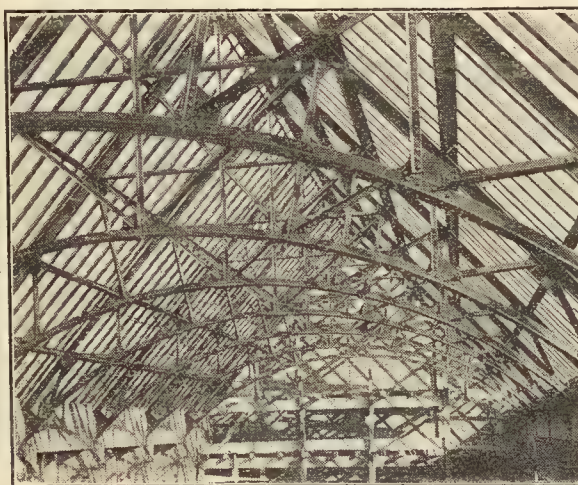
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PHILADELPHIA, WEDNESDAY, OCTOBER 14, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Wynnefield, Philadelphia. Architects (associated), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner's name withheld. Stone, 3 stories, 110x39 feet, slate roof, hardwood floors, electric lighting (indirect steam heating and plumbing, architects taking separate bids). Architects taking bids, due October 17th. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; F. L. Hoover & Son, 1023 Cherry street; J. P. Thompson, Real Estate Trust Building; William R. Dougherty, 1610 Sansom street; Milton W. Young, Overbrook, Philadelphia; J. Paul Emrey, North Wynnefield, Philadelphia; J. Sims Wilson Co., 1125 Brown street; H. E. Baton, Twelfth and Sansom streets.

Manse, Tenth and Kimball streets, Philadelphia. Architects, Charles Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Italian Presbyterian Church, care of Rev. A. Stasion, Tenth and Kimball streets. Brick and stone, 2 stories, 32x32 feet, slag roof, steam heating, electric lighting. Architects taking bids, due October 15th. Burd P. Evans Co., Thirteenth and Wallace streets; T. C. Trafford, 1613 Sansom street; Harrison C. Rea Co., 1027 Wood street; H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street, all of Philadelphia, are figuring.

Garage, Fifty-fourth and Overbrook avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, E. H. Reuss, 921 South Forty-sixth street, Philadelphia. Stone, 1 story, 20x24 feet, slate roof, electric lighting. Plans in progress.

Garage, Fifty-eighth and Hoffman streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, F. H. Thole, Penn Square Building, Philadelphia. Brick, 2 stories, 46x110 feet, Carey's or slag roof, steam heating, electric lighting (gasoline storage reserved). Owner taking general and sub-bids. J. R. Jackson, Perry Building, is figuring.

Trestle, North Philadelphia Station, Philadelphia. Architect, private plans. Owners, Pennsylvania Railroad Company, Jersey City,

N. J. Concrete and wood, 300 feet long. Owners have received bids.

Apartments (alt. and add.), Twentieth and Chestnut streets, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Estate of Stephen B. Fottterall, care of W. F. Fottterall, 1937 Chestnut street, Philadelphia. Brick, 4 stories, 20x100 feet, slag and tin roof, hot water heating, electric lighting, hardwood floors, metal sash and frames, kalamein doors (electric elevator reserved). Architect has received revised bids.

Residences (2) (alts.), 418-420 South Twentieth street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, William Hall, 414 South Twentieth street, Philadelphia. Brick, 3 stories, tin roof, tile work, electric lighting (hot water heating reserved). Architects have received bids.

Convent Building, Twelfth and Spring Garden streets, Philadelphia. Architects, Ed. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owner, Church of the Assumption, Rev. J. Smith, on premises. Brick and stone, 3 stories, 36x91 feet, slate and slag roof, hot water heating, electric lighting. Architects taking bids, due October 14th. Jacob Myers & Sons, Witherspoon Building; M. L. Conneen & Co., 2015 Cuthbert street; Monahan & Losse, 214 South Twelfth street; H. E. Baton, Twelfth and Sansom streets; William R. Dougherty, 1610 Sansom street; Melody & Keating, Bailey Building; John McShain, 631 North Seventeenth street; W. J. McShane, 417 South Thirteenth street; D. W. O'Dea, 5219 North Fifth street; Joseph Bird Co., 213 North Eleventh street, all of Philadelphia, are figuring.

Residence, Wissahickon avenue and Johnson street, Germantown. Architects, Savery, Scheetz & Savery, Girard Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof, hot water heating, electric lighting. Architects have received bids.

Factory, Second and Lehigh avenue, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Manufacturing Co., on premises. Brick

and concrete, 2 stories, 38x200 feet, slag roof (electric lighting, separate bids). Architects have received bid.

Store Building (alt. and add.), 1727 Walnut street, Philadelphia. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, John A. McDowell, on premises. Brick and stone, 4 stories, hardwood floors. Consists of new front (heating and lighting, reserved). Architect taking bids due October 14th. The following are figuring: H. E. Grau Co., 1709 Sansom street; E. J. Kreitzburg, 1345 Arch street; Thos. M. Seeds, 1207 Race street; Wm. R. Dougherty, 1610 Sansom street; A. Whitehead, Inc., 1624 Latimer street, all of Philadelphia.

Residence, Fifty-fourth and Overbrook avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut streets, Philadelphia. Owner, E. H. Reuss, 921 South Forty-sixth street, Philadelphia. Stone, 2½ stories, 40x30 feet, wing 19x20 feet, slate roof, hot water heating, electric lighting, hardwood floors. Revised plans in progress.

Store and Hall Building, Sixty-second and Woodland avenue, Philadelphia. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, Chas. E. Fletcher, care of J. W. Camac, Sixty-second and Woodland avenue. Brick and stone, 2 stories, 30x119 feet, slag roof, steam heating, electric lighting, tile floors, metal lath. Architect taking bids due October 17th. The following are figuring: E. E. Hollenback, Inc., Fifteenth and Race streets, Philadelphia, and J. K. Ingram and J. Lowden, both of Lansdowne, Pa.

Building (alt. and add.), 3316 North Broad street, Philadelphia. \$10,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, Wm. H. Battersby, 3748 Germantown avenue, Philadelphia. Brick and terra cotta, 3 stories, 50x75 feet, copper roof, hot water heating, electric lighting, oak and tile floors, metal lath. Owner taking bids due October 15th. The following are figuring: H. P. Schneider, York Road and Erie avenue; John Shuster, Fifteenth and Venango streets; W. H. Schultz, 3300 North Carlisle street; Harry Brocklehurst, 512 West Norris street, all of Philadelphia.

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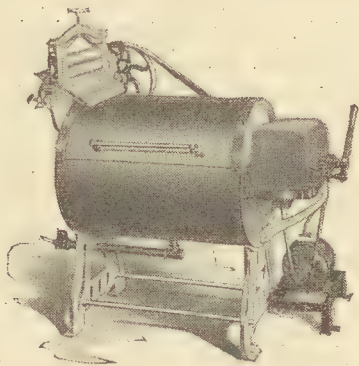
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Factory (alt. and add.), Thirteenth and Cherry streets, Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, A. Steinfeld, Juniper and Cherry streets, Philadelphia. Brick, 5 stories, 60x104 feet, slag roof, steam heating, electric lighting. Architect taking bids due October 17th. Smith-Hardican Company, 1606 Cherry street, and Freund-Seidenbach Company, Bulletin Building, Philadelphia, are figuring.

Apartment House, Twenty-second and Walnut streets, Philadelphia. Architects, Clinton & Russell, 32 Nassau street, New York City. Owners, Walnut Street Apartment House Co., care of T. W. Barlow, 122 South Thirteenth street, Philadelphia. Brick, steel and concrete, 12 stories, 36x86 feet, slag roof, steam heating, electric lighting, oak floors, metal lath, waterproofing. Builders, Mockett Construction Co., Sixth and Market streets, Camden, N. J., are taking sub-bids on all lines.

Apartment House (alt. and add.), Broad and Reed streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, John Burt, 1443 South Broad street, Philadelphia. Brick and stone trimmings, 4 stories, 22x40 feet, slag roof, steam heating, electric lighting, oak floors. Architects taking bids, due October 17th. The following are figuring: Smith-Hardican Company, 1606 Cherry street; A. Whitehead, Inc., 1624 Latimer street; Daniel Keenan, Sixteenth and Ritner streets; E. J. Kreitzburg, 1345 Arch street, all of Philadelphia.

Factory (alt. and add.), Thirteenth and Cherry streets, Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, A. Steinfeld, Juniper and Cherry streets, Philadelphia. Brick, 5 stories, 60x104 feet, slag roof, steam heating, electric lighting. Architect taking bids, due October 17th. H. E. Baton, Twelfth and Sansom streets; Lam Building Co., 1001 Wood street; Joseph Bird Co., 213 North Eleventh street, Philadelphia, are figuring, in addition to those reported.

Store and Apartment (alt. and add.), 2627 Kensington avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, D. Singman, 7155 Germantown avenue, Philadelphia. Brick, 3 stories, 17x63 feet, slag roof, hot air heating, electric lighting, hardwood floors. Architect taking bids, due October 17th. George Hogg, 1634 Sansom street; S. Schultz, 923 East Moyamensing avenue; Fred Quato, 1323 Snyder avenue, Philadelphia, are figuring.

Store Building (alt. and add.), 158 North Sixth street, Philadelphia. Architect, Charles E. Oelschlager, Harrison Building, Philadelphia. Owner's name withheld. Brick, 3 stories, slag roof (heating and electric work reserved). Architect taking bids, due October 19th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; Frank Lucci, 1345 Christian street; E. J. Kreitzburg, 1345 Arch street; I. T. Shoemaker, 1309 Walnut street.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Residence, Eleventh and Brown streets. \$2,600. Architect, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, A. Graboyes, 1021 North Front street, Philadelphia. Brick, 3 stories, 21x55 feet, slag roof, hot water heating, electric lighting. Contract awarded to J. Gorchov, 317 Reed street, Philadelphia.

Residences (alt. and add.), Wissahickon

avenue and Manheim street, Germantown. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Paul E. Sutro, Coulter and Fox streets, Germantown, Philadelphia. Brick and plaster, 2½ stories, tin roof. Consists of interior alterations and addition. Contract awarded to W. C. Wright, 22 Harvey street, Germantown.

Store (fire repairs), Northeast corner Sixth

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and Arch streets, Philadelphia. Architect, private plans. Owner, J. H. Schenck & Son, on premises. Consists of fire repairs, cold water painting, etc. Contract awarded to Joseph Bird Company, 213 North Eleventh street, Philadelphia.

Residence (alt. and add.), East Washington Lane, Germantown. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owners, Misses Cope, on premises. Stone, 2½ stories, 24x30 feet, shingle roof, canvas roof (heating and lighting, reserved). Contract awarded to H. H. Burrell, 1204 Chancellor street, Philadelphia.

Residence (alt. and add.), 2024 Spruce street, Philadelphia. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, E. H. Coates, on premises. Brick and stone, 4 stories. Consists of two new bay windows and interior alterations. Contract awarded to Wm. J. Gruhler, 219 High street, Germantown.

Building (alt. and add.), Germantown and Cheltenham avenues, Germantown, Philadelphia. \$12,000. Architect, private plans. Owner, Geo. W. B. Fletcher, West End Trust Building, Philadelphia. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to John N. Gill Co., Heed Building, Philadelphia.

Garage (alt. and add.), 261 West Walnut Lane, Germantown. Architect, private plans. Owner, Charles Quin, 261 West Walnut Lane, Germantown. Stone, 2 stories. Consists of interior alteration and addition. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Sub-Station, West Philadelphia Station, Philadelphia. \$16,000. Architect, Wm. H. Cookman, Broad street Station, Philadelphia. Owner, Pennsylvania Railroad Co., Broad street Station, Philadelphia. Brick and concrete, 2 stories, 33x66 feet, metal sash and frames, composition roof. Contract awarded to Chas. McCaul Company, 1713 Sansom street, Philadelphia.

Stable, Eighteenth and Callowhill streets. Architects, private plans. Owner, Philadel-

phia & Reading Railway Company, Twelfth and Market streets, Philadelphia. Brick, 2 stories, 50x100 feet, slag roof. Contract awarded to C. P. Bower, Nineteenth and Courtland streets, Philadelphia.

Coal Yard, Seventeenth and Callowhill streets, Philadelphia. Architect, W. H. Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Company, Reading Terminal, Philadelphia. Concrete, steel and wood. Consists of 10 coal bins. Contract awarded to C. P. Bower, Nineteenth and Courtland streets, Philadelphia.

Rectory, Twelfth and Spring Garden streets, Philadelphia, \$21,000. Architects, E. F. Durang & Sons, Twelfth and Chestnut streets, Philadelphia. Owner, Church of the Assumption, Rev. J. Smith, on premises. Stone and brick, 3 stories, 40x50 feet, wing 20x31 feet, slate and slag roof, electric lighting, hot water heating, metal lath. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Bakery and Dwelling, Fifth and Lombard streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Brick, 3 stories, 18x62 feet, slag roof, hot water heating, electric lighting, metal lath, waterproofing, 2 bake ovens. Contract awarded to Milgram Bros., 1802 South Sixth street, Philadelphia.

Residence (alt. and add.), 3927 Locust street, Philadelphia. Architects, Folsom & Stanton, 1433 Chestnut street, Philadelphia. Owner, Harold Goodwin, on premises. Brick and plaster, 3 stories, 16x38 feet, tin roof, vapor vacuum heating, electric lighting, tile floors, canvas roof. Contract awarded to Warren Biscoe, 3954 Ludlow street, Philadelphia.

Marine Barracks (alt. and add.), League Island, Philadelphia. Architect, private plans. Owner, United States Navy, care of Public Works, League Island, Philadelphia. Consists of new porch, copper roof. Contract awarded to Edw. Fay & Sons, 2 South Mole street, Philadelphia.

PENNSYLVANIA

Construction News

Stores (2), Pennsylvania avenue, Scranton, Pa. \$7,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owner, Godwin Estate, Scranton, Pa. Brick and terra cotta, 2 stories, 30x60 feet, slate roof, steam heating, electric lighting, dampproofing, metal sash, leaded glass. Plans in progress.

Garage, Scranton, Pa. \$10,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owner, Maloney Oil & Manufacturing Co., 141 Meridian street, Scranton. Tapestry brick, limestone and concrete, 1 story, 35x65 feet, slag roof, steam heating, electric lighting, concrete floors, metal sash,

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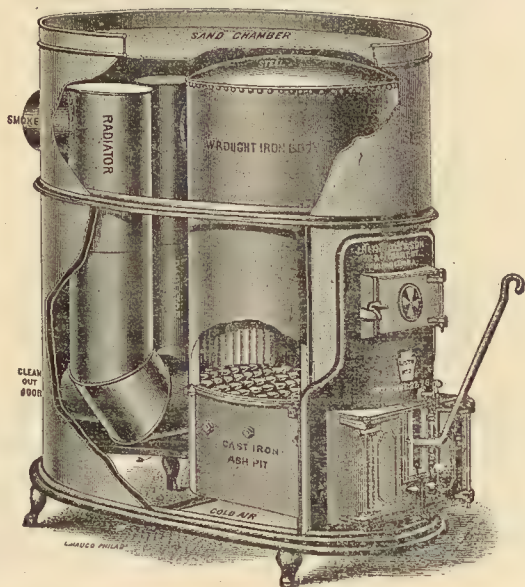
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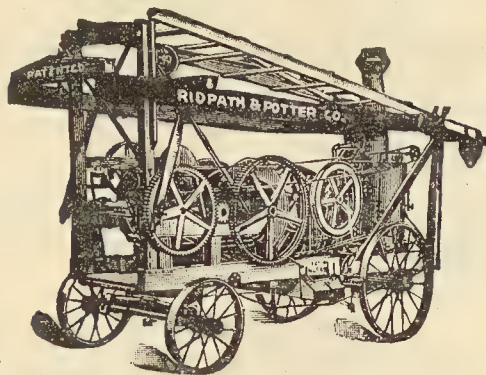


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turn-tables, waterproofing. Plans in progress.

Store Front, Olyphant, Pa. \$6,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owner, Gallagher Estate, Olyphant, Pa. Frame and stucco, tile roof, electric lighting, tile floors, metal lath. Plans in progress.

Rectory, Kingston, Pa. \$16,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Ignatius R. C. Church, Kingston, Pa. Brick and stucco, 3 stories, 44x54 feet, tile roof, steam or hot water heating, gas and electric lighting, tile work, hardwood floors, metal lath. Plans in progress.

Residence, Wilkes-Barre, Pa. Architect, private plans. Owner, Martin Kaebroski, Wilkes-Barre, Pa. Frame, 2 stories, 28x32 feet, shingle roof, heating undecided, electric lighting. Owner taking bids.

Residence, Wilkes-Barre, Pa. Architect, private plans. Owner, A. Adukiewicz, Wilkes-Barre, Pa. Frame, 2 stories, 25x31 feet, shingle roof, gas and electric lighting, heating undecided. Owner is taking sub-bids.

Armory, Allentown, Pa. \$40,000. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner, Armory Board of the State of Pennsylvania, Benjamin W. Demming, secretary, Harrisburg, Pa. Brick, stone and steel, 2 stories, 70x86 feet, slag roof, steam heating, electric lighting, concrete and wood floors, waterproofing and dampproofing. Owners taking bids due October 22nd, at noon.

Hose House, Blakely Borough, Pa. \$6,000. Architect, Guy W. Osterhout, Cornell Building, Scranton, Pa. Owner, Borough of Blakely, Blakely, Pa. Brick, 2 stories, 26x54 feet, slate roof, steam heating, electric lighting, concrete floors. Architect has received bids.

Hose House, Newport Township, Pa. \$6,500. Architect, A. J. Lathrop & Company, Peoples Bank Building, Wilkes-Barre. Owners, Board of Commissioners, care of W. O. Davis, Glen Lyon, Pa. Brick, stone trimmings, 2½ stories, 25x54 feet, slag roof, steam heating, electric lighting. Owners are taking bids due October 19th.

Science Building, Huntingdon, Pa. Architect, Ed. L. Tilton, 32 Broadway, New York City. Owner, Juniata College, care of I. Harvey Brumbaugh, Huntingdon, Pa. Brick and terra cotta, 3 stories, 46x91 feet, slag and tile roof, direct steam heating, electric lighting, metal lath (waterproofing, separate bids). Architect taking bids due October 19th. R. C. Ballinger & Company, 218 North Thirteenth street, Philadelphia, are figuring.

Hog House, Oreland, Pa. Architects, Steward & Page, 320 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Oreland, Pa. Concrete and frame, 1 story, 28x76 feet, asbestos shingle roof, cement floor. Architects taking bids due October 15th. The following are figuring: F. E. Wallace, 1210 Sansom street;

Specht & Sperry, Heel Building; W. H. Carr, 6004 Germantown avenue; W. John Stevens, Wyncote, Pa.; F. L. Hoover & Sons, 1023 Cherry street, all of Philadelphia.

Residence, Lansdowne, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, name withheld. Stone and plaster, 2½ stories, 27x38 feet, wing 13x13 feet, shingle roof, hot water heating, electric lighting, tile floors. Plans in progress.

Fences and Gates, Bala and Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Lower Merion Township Playground Association, Ardmore, Pa. (G. C. Anderson, Clerk, Ardmore, Pa.) Wood, brick and iron. Architect taking bids due October 15th. The following are figuring: Anchor Post Iron Works, Real Estate Trust Building; E. J. Hedden, Penn Square Building; Wayne Iron Works, Commercial Trust Building; James H. Wells, Heel Building; Jacob Myers & Sons, Witherspoon Building; Kesting & Kopp, 813 Winter street; E. T. Brownworth, 1611 Sansom street, all of Philadelphia; Philip S. Davis, Bryn Mawr, Pa.; Caleb Nash, Mt. Vernon, N. Y.; Phoenix Iron Co., Phoenixville, Pa.; E. Carpenter Co., 868 Postal Building, New York City.

Residence, Rose Valley, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, L. Stauffer Oliver, Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 91x61 feet, tile and composition roof, composition floors (heating and lighting, reserved), waterproofing. Architects have received revised bids.

Sub-Station (add.), Seigfried, Pa. Architect, L. B. Stillwell Eng. Co., New York City. Owner, Lehigh Navigation Co., an premises. Brick, steel and concrete, 1 story, 59x75 feet, slag roof, waterproofing, metal sash and frames. Owners taking bids. Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, is figuring.

Residence (alt. and add.), Phoenixville, Pa. Architects, Boyd, Coneys & Ablo, Fifteenth and Walnut streets, Philadelphia. Owner, Dr. C. M. Vanderslice, Phoenixville, Pa. Stone and frame, 2½ stories, slate roof, electric lighting, oak floors. Owner taking sub-bids.

Garage, Darby, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, name withheld. Brick, 1 story, electric lighting (heating, reserved), gasoline storage. Plans in progress.

Residence, Paoli, Pa. Architect, Herbert C. Wise, Franklin Building, Philadelphia. Owner, Dr. O. G. L. Lewis, Berwyn, Pa. Stone and frame, 2½ stories, 25x65 feet, shingle roof, hot water, heating, electric lighting. Architect taking bids due October 17th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street, Philadelphia; J. D. Len-

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gle, Wayne, Pa.; W. H. Parlaman, Devon, Pa.; M. N. Croll, St. Davids, Pa.

School, Morton, Pa. Architect, Lewis F. J. Moore, Media, Pa. Owner, Board of Education, Morton, Pa. Brick and plaster, 1 story and basement, 82x93 feet, shingle roof, steam heating, electric lighting. Owners have received bids.

School Building, Coaldale, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, Board of Education, Coaldale, Pa. Brick, 2 stories and basement (8 class rooms and auditorium), slag roof, electric lighting. Owners have received bids.

Bridges (repairs), Parsons, Pa. Engineer, Osborne Morgan, Second National Bank, Wilkes-Barre, Pa. Owner, Borough of Parsons, Superintendent Loveland, Parsons, Pa. Consists of new concrete floors for 12 bridges. Plans in progress.

Association Building, Scranton, Pa. \$50,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, Young Men's Hebrew Association, 440 Wyoming avenue, Scranton, Pa. Stone and brick, 3½ stories, 70x96 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and dampproofing, metal lockers. Plans in progress.

Store Building, Pittston, Pa. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, C. H. Cutler, Pittston, Pa. Brick, limestone trimmings, 2½ stories, 33x80 feet, slag roof, steam heating, gas and electric lighting. Plans in progress.

Residence, Pittston, Pa. \$6,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, John H. Kresge, Pittston, Pa. Frame and stucco, 2½ stories, 24x40 feet, slate roof, hot water heating, gas and electric lighting, metal lath. Architect ready for bids.

Apartment and Stores, Scranton, Pa. \$15,000. Architect, Louis Reisman, Dime Bank Building, Scranton, Pa. Owner, Samuel Hopkins, Birch avenue, Scranton, Pa. Brick and stucco,

co, 3 stories, 40x80 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, waterproofing and dampproofing. Plans in progress.

Store Front, Forest City, Pa. \$2,500. Architect, Louis Reisman, Dime Bank Building, Scranton, Pa. Owner, I. Joseph, Forest City, Pa. Metal ceilings, electric lighting, tile work. Plans in progress.

Church (add.), Simpson, Pa. \$20,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Simpson M. E. Church, Simpson, Pa. Brick veneer, 1 story, 65x75 feet, slag roof, steam heating, dampproofing. Ready for bids.

Picture Theatre, Forest City, Pa. Architects, Davey & Crowther, Coal Exchange Building, Scranton. Owner, Julius Freedman, Forest City, Pa. Brick, stone trimmings, 1 story, 50x150 feet, slag roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing. Owner is taking bids.

Farm House (alts.), Whitford, Pa. \$2,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, Whitford Lodge, Whitford, Pa. Stone and frame, 2½ stories. Consists of new partitions and plumbing fixtures. Architects taking bids due October 19th. J. M. Burns, D. S. Sullivan, P. E. Jefferies, all of West Chester, Pa.; F. F. Gray, Greenhill, Pa.; Elfreth & Wood, 1708 Sansom street, Philadelphia, are figuring.

Car Shops, Pen Argyle, Pa. Architect, private plans. Owners, Lehigh & New England Railroad Co., South Bethlehem, Pa. Brick, concrete, hollow tile, stucco and steel, 1 and 2 stories, 164x264 feet, 100x41 feet, 50x41 feet. Consists of main locomotive repair shop, boiler house, storehouse, oilhouse, engine pits, offices, etc., cement tile, concrete and asbestos roofs, steel sash and doors, fan system of heating. Owners taking additional bid due October 14th. Jacob Myers & Sons Co., Witherspoon Building, Philadelphia, are figuring.

lighting. Contract awarded to J. D. Lingle, Wayne, Pa.

Store (add), Darby, Pa. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, N. L. Jackson, Darby, Pa. Brick, 1 story, 20x25 feet, slag roof, hot water heating, electric lighting. Contract awarded to D. P. Gotshall, Darby, Pa.

Hospital (add), Scranton, Pa. \$15,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, West Side Hospital, Scranton, Pa. Brick, 2 stories, slag roof, steam heating, electric lighting composition

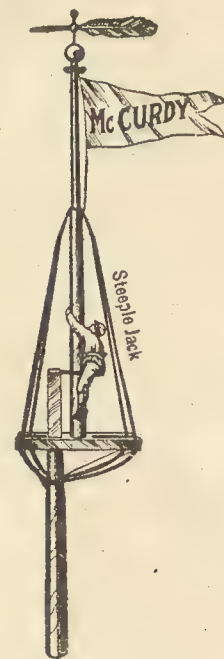
Residence (alt and add.), Melrose Park, Pa. Architect, Herbert O. Wise, Franklin Building, Philadelphia. Owner, Hiram Buchhorn, Melrose Park, Pa. Stone, 2½ stories, copper roof, hot water heating. Consists of new sun parlor. Contract awarded to W. D. Lukens, North Wales, Pa.

Residences (2), Wayne, Pa. Architects, De Armond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, Norman P. Sinclair, Real Estate Trust Building, Philadelphia. Brick and frame, 2½ stories, 25x30 feet, shingle roof, hot air heating, electric

floors, metal lath. Contract awarded to Parsons Construction Company, Scranton, Pa.

Residence, Allentown, Pa. \$10,000. Architects, Jacoby & Weishaar, Commonwealth Building, Allentown, Pa. Owner, Walter Ziegenfuss, Commonwealth Building, Allentown, Pa. Brick, 2½ stories, 40x44 feet, tile roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to George O. Stump, 519 North Ninth street, Allentown, Pa.

School, Emaus, Pa. \$30,000. Architect, E. M. Pickon, Hunsicker Building, Allen-



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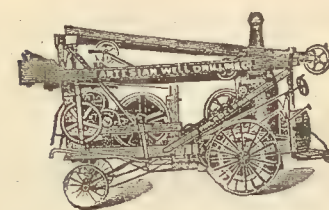
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PENNSYLVANIA Contracts Awarded

town, Pa. Owner, Board of Education, D. F. Wagner, secretary, Emaus, Pa. Brick, 2½ stories, 44x144 feet, slate roof, steam heating, electric lighting, slate blackboards. Contract awarded to A. P. Hauser, Emaus, Pa.

High School, Pittston, Pa. \$212,000. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Board of Education, Pittston, Pa. Brick and terra cotta, 2 stories, 283x120 feet, slag roof, electric lighting, hot air direct heating, metal lockers, slate blackboards. Contract awarded to Miles J. Frey, Pittston, Pa.

Boiler House (alt. and add.), Chester, Pa. Architect, Chas. A. Blatchley, Drexel Building, Philadelphia. Owners, Aberfoyle Manufacturing Co., Chester, Pa. Brick and steel, 1 story, 35x35 feet, slag roof. Contract awarded to Wm. Provost, Chester, Pa.

Residence, Paoli, Pa. \$10,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, Gordon H. Cilley, 207 Church Road, Ardmore, Pa. Stone, 2½ stories, shingle roof, hot water heating, electric lighting, oak floors. Contract awarded to J. E. Kearney, 327 North Sixty-third street, Philadelphia.

Church, Chester, Pa. Architects, Chas. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Bethany Presbyterian Church, Chester, Pa. Stone, 1 story, 50x95 feet, slate roof, steam heating, electric lighting. Contract awarded to Mercadante & Sons, Chester, Pa.

Residence (alt. and add.), Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owner, Sisters of St. Joseph, Conshohocken, Pa. Brick, 3 stories, 40x60 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Armory, Williamsport, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner, Armory Board of the State of Pennsylvania, Benjamin W. Demming, secretary, Harrisburg, Pa. Brick, stone trimmings, 1 story, slag roof, steam heating, electric lighting. Contract awarded to James V. Bennett & Company, Williamsport, Pa. Heating awarded to E. Keeler Company, Williamsport, Pa. Electric wiring awarded to Pryor & Salata Company, Williamsport, Pa. Plumbing awarded to A. B. Hunt Company, Williamsport, Pa.

Department of Charities and Correction, Trenton. Consists of alterations to drug department. Contract awarded to Metzger & Fisher, Denckla Building, Philadelphia.

Dairy Barn and Stable, Vineland, N. J. \$13,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Correction, Trenton, N. J. Brick and stucco, 1 story, 41x90 feet, and 89x36 feet, slag roof, electric lighting, cork bricks. Contract awarded to Metzger & Fisher, Denckla Building, Philadelphia.

Stores (9), New Jersey avenue and Boardwalk, Atlantic City, N. J. \$50,000. Architects, Hewitt & Granger, Bullitt Building, Philadelphia. Owners, Newlin Haines Company, Atlantic City, N. J. Terra cotta and limestone, 1 story, 56x184 feet, electric lighting, steam heating, slag roof, hardwood floors, hollow tile, fireproofing, marble and granite, red brick, waterproofing and metal lath. Contract awarded to Cramp & Company, Denckla Building, Philadelphia.

Twin Residence, Lawrenceville, N. J. \$4,000. Architect, W. P. Endebrock, American Mechanics Building, Trenton, N. J. Owner, R. C. Diocese of Trenton, Trenton, N. J. Frame, 1½ stories, 28x40 feet, slate roof, steam heating, gas lighting. Contract awarded to Andrew J. Frier, 61 Pennington street, Trenton, N. J.

NEW JERSEY Construction News

Residence, Atlantic City, N. J. \$10,000. Architects, Durham Bros., Heed Building, Philadelphia. Owner, H. B. Shoemaker, Wisahickon avenue and Upsal street, Philadelphia. Frame, 3 stories, 25x50 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Owner taking sub-bids.

Church, Audubon, N. J. \$20,000. Architect, John H. Mowers, 3110 Columbia avenue, Philadelphia. Owners, Holy Trinity Evangelical Lutheran Church, care of Rev. Wm. H. Harding, Audubon, N. J. Stone, 1 story, 60x39 feet, Star Bangor or Washington Vein slate roof, gas and electric lighting, metal lath (heating, reserved). Architect taking bids (revised) due October 14th. E. J. Kreitzburg, 1345 Arch street, and Alex. Chambley, 243 South Tenth street, Philadelphia, are figuring.

Employees' Cottages (2), Morris Plains, N. J. \$20,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Insane Asylum, O. M. Vaughn, Warden. Frame and stucco, 2 stories, 31x153 feet each, slag and tile roof, steam heating, electric lighting, metal lath, composition floors. Owners taking bids due October 21st. Metzger & Fisher, Denckla Building, Berry-Goodwin Co., Drexel Building, James H. Wells, Heed Building, Philadelphia, are figuring.

Dining Building (alt. and add.), Morris Plains, N. J. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Brick, 1 story, steam heating, electric lighting, metal lath. Consists of interior alteration and addition. Owners taking bids due October 21st. The following are figuring: Metzger & Fisher, Denckla Building; James H. Wells, Heed Building; Berry-Goodwin Co., Drexel Building, all of Philadelphia.

Telephone Exchange (alt. and add.), Atlantic City, N. J. Architect, John T. iWndrim, Commonwealth Building, Philadelphia. Owner, Delaware & Atlantic Telephone & Telegraph Co., Thirteenth and Arch streets, Philadelphia. Brick, 1 story, 26x27 feet, slag roof, steam heating, electric lighting. Architect taking bids due October 23rd. Pomeroy Construction Company, 1609 Ranstead street, and F. W. Loon, Denckla Building, Philadelphia, are figuring.

Store Building (alt. and add.), 538 Federal street, Camden, N. J. \$5,000. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owners, name withheld. Brick, stone trimmings, 1 story, gas and electric lighting, metal lath, composition floors. Plans about completed. Architects will soon take bids.

NEW JERSEY Contracts Awarded

Residence (alt. and add.), Woodstown, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, Sue H. Coles, Woodstown, N. J. Brick, 2½ stories, tin roof (heating and lighting, reserved). Contract awarded to L. S. Parris, Swedesboro, N. J.

School, Pennsgrove, N. J. \$35,000. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, Board of Edu-

cation, Thomas M. Hunt, Chairman Building Commission, Pennsgrove, N. J. Brick, limestone trimmings, 2 stories, 60x160 feet, slag roof, electric lighting, slate blackboards, metal lath (heating, separate bids). Contract awarded to Wilbert Beaumont, Stephen Girard Building, Philadelphia. (Note change.)

Drug Department (alts.), Vineland, N. J. \$4,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey,

Miscellaneous Construction News

Hotel (add.), Schenectady, N. Y. Architect, Chas. A. Sussdorf, Albany, N. Y. Owner, Hotel Mohawk, care of John H. Meehan, Schenectady, N. Y. Brick, stone and steel, 8 stories, 50x100 feet, slag roof (heating and lighting, reserved), metal lath, dampproofing and waterproofing. Architect taking revised bids due October 20th. Wells Construction Co., Witherspoon Building, Philadelphia, is figuring.

Picture Theatre (alts.), Wilmington, Del. \$5,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, Avenue Amusement Company, Delaware avenue and Tatnall street, Wilmington, Del. Consists of new floors, new seats, decorating, etc. Plans in progress.

Bank and Office Building, Warren, Ohio. Architect, F. Owsley, Youngstown, Ohio. Owner, Western Reserve National Bank, Warren, Ohio. Brick, granite, terra cotta and steel, fireproof, 8 stories, 101x56 feet, asphalt roof, metal lath, waterproofing (heating and electric work, reserved). Architect taking bids. James H. Wells, Heed Building, Philadelphia, figuring.

Miscellaneous Contracts Awarded

Factory Building (2), Syracuse, N. Y. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, New Process Gear Corporation, Syracuse, N. Y. Reinforced concrete, 3 stories, 83x43 feet, brick and steel, 1 story, 48x127 feet, slag roof, steam heating, electric lighting. Contract awarded to R. H. Howes Construction Co., 105 West Forty-fifth street, New York City.

Residences (alts. and add.), Wilmington, Del. \$2,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Peter J. Ford, Ford Building, Wilmington, Del. Brick and frame, 1 story additions, 8x16 feet each, tin roofs. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Power House and Tunnel, Cleveland, Ohio. \$90,000. Architect, Frederic H. Betz, Cleveland, Ohio. Owner, Cleveland City Hospital, Cleveland, Ohio. Brick, concrete and steel, fireproof, 1 story, 93x83 feet, composition

roof, salt glazed bricks, metal sash, waterproofing and dampproofing. Contract awarded to James H. Wells, Heed Building, Philadelphia.

MARYLAND Construction News

Post Office (alts.), Baltimore, Md. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Consists of alterations to stamp division, marble work, bronze work, electric work. Owners taking bids due October 21st. The following are figuring: M. C. Davis, 15 East Fayette street; P. J. Cushen, 218 St. Paul street; G. W. Tovell, Eutaw and Dolphin streets; Consolidated Engineering Company, Calvert Building; C. L. Stockhausen, Gay and Water streets; Fred Decker & Son, 1209 East Biddle street; Cowan Building Company, 106 West Madison street, all of Baltimore, Md.

Residence, Walnut and Third avenues, Baltimore, Md. \$4,500. Architect, J. G. Gardiner, Catonsville, Md. Owner, J. H. Poats, Bate-man Apartments, Baltimore, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Architect will sub-let all contracts.

Residence, Hillen Road near Ethelwood avenue, Baltimore, Md. \$5,000. Architect, J. W. Nelson, Towson, Md. Owner, Wm. Phillips, Towson, Md. Brick, 2 stories, 30x33

feet, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residence, Montebello Park, Md. Architect, S. Russell, 2900 Clifton avenue, Baltimore, Md. Owner, Montebello Park Company, 11 East Fayette street, Baltimore, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residence, Belair Road and Maple avenue, Baltimore. \$6,000. Architect, private plans. Owner, A. Culotta, 411 West Franklin street, Baltimore, Md. Brick, marble trimmings, 2½ stories, tin roof, hot water heating, electric lighting. Owner taking bids. C. L. Stockhausen, Gay and Water streets, Baltimore, Md., is figuring.

Church, Bethel and Orleans streets, Baltimore, Md. \$10,000. Architect, Herbert Aiken, Caroline and Canton avenue, Baltimore, Md. Owner, Israel Baptist Church, Baltimore, Md. Stone, 1 story, 32x46 feet, slate roof, steam heating, electric lighting. Builder W. E. Harn Company, 213 North Calvert street, Baltimore, Md., is taking sub-bids.

MARYLAND Contracts Awarded

Residence, Catonsville, Md. \$5,000. Architect, private plans. Owner, Wm. Treuth, Catonsville, Md. Frame, 2 stories, slate roof, steam heating, electric lighting. Contract awarded to C. C. Rumpf & Son, Catonsville, Md.

Bungalow, Catonsville, Md. \$4,500. Architect, private plans. Owner, James Granville, care of Builders. Frame, 1½ stories, electric lighting. Contract awarded to Schatz Bros., Catonsville, Md.

Factory (alt. and add.), 614 Buren street, Baltimore, Md. Architect, J. E. Laferty, 11 East Pleasant street, Baltimore, Md. Owner, Baltimore Manufacturing Co., Monument and Buren streets, Baltimore. Brick, 2 stories, 60x75 feet, slag roof, electric lighting. Contract awarded to R. B. Mason, 308 West Madison street, Baltimore, Md.

Residence, Roland Park, Md. Architects, Elliott & Emmart, Union Trust Building, Baltimore, Md. Owner, John M. Gates, care of architects. Stucco, 2½ stories, slate roof, steam heating, electric lighting, tile work. Contract awarded to Gladfelter & Chambers, 2072 Woodberry avenue, Baltimore, Md.

Armory, Elkton, Md. \$26,450. Architect, R. A. Whittingham, Newark, Del. Owner, State of Maryland, care of C. B. Finley, Elkton, Md. Stone and steel, 2 stories, 65x146 feet, composition roof, steam heating, electric lighting, waterproofing. Contract awarded to Levi I. Patterson, Perryville, Md.

Residence, Ruxton, Md. \$50,000. Architect, Laurence Hall Fowler, 347 North Charles street, Baltimore, Md. Owner, John E. Deford, Ruxton, Md. Brick and stucco, 2½ stories, slate roof, hot water heating, electric

lighting, hardwood floors, tile work, dumb-waiter, wire lath. Contract awarded to Cowan Building Company, 106 West Madison street, Baltimore, Md.

Chapel, Ridenwood, Baltimore, Md. \$7,000. Architect, Thomas Bond Owens, 347 North Charles street, Baltimore. Owner, Trinity Parish, Ridenwood, Baltimore, Md. Frame, 2 stories, shingle roof, hot water heating, electric lighting. Contract awarded to Cowan Building Company, 106 West Madison street, Baltimore, Md.

Garage, 2030 Harford avenue, Baltimore, Md. \$2,500. Architect, private plans. Owner, Aug. Breidenstein, 2030 Harford avenue, Baltimore. Brick, 1 story, 30x100 feet, slag roof, electric lighting. Contract awarded to Fred Decker & Son, 1209 East Biddle street, Baltimore, Md.

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It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

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O is the abbreviation for owner. C is for contractor.

Philadelphia

H. E. Wagner (O), 5030 Keyser street. Cost, \$6,000. Two dwellings, brick, 2 stories, 16x50 feet, Queen street.

Morris Feldman (O), Fifth and Moore streets. Michael Kirshner (C), 421 Snyder avenue. Cost, \$27,000. Fifteen dwellings, brick, 2 stories, 15x23 feet. Cost, \$27,000. Fifteen dwellings. Cost, \$6,400, 2 stores and dwellings, Joyce and Tioga streets.

Rev. P. Rhineland (O), 251 South Twenty-second street. Stacey Reeves & Sons (C), 2011 Market street. Cost, \$49,000. Home, brick, 4 stories, 65x66 feet, Eighth and Snyder avenue.

C. McCurdy (O), G and Tioga streets. George Zehr (C), 8122 Tioga street. Cost, \$4,200. Dwelling, stone, 2 stories, 15x165 feet, G and Tioga streets.

L. K. Slifer (O), 4250 North Broad street. Cost, \$3,000. Dwelling, brick, 3 stories, 16x40 feet, Bristol and Parke avenue.

J. W. Scott Dairies (O), Forty-fifth and Parrish streets. Metzger & Fisher (C), Denckla Building. Cost, \$32,000. Dairies, brick, 2 stories, 55x101 feet, Forty-fifth and Parrish streets. Cost, \$8,000.

W. O. Mahon (O), 4813 North Twelfth street. Cost, \$6,900. Three dwellings, brick, 2 stories, 16x30 feet, Marvine and Loudon streets.

Girard Estate (O), Lafayette Building. James G. Doak & Co. (C), Crozer Building. Cost, \$25,000. Power house, brick, 1 story, 88x67 feet, Twentieth and Oregon avenue.

T. T. Elwell (O), 1826 North Park avenue. Cost, \$48,000. Twelve dwellings, brick, 2 stories, 16x60 feet, Midvale and Wissahickon avenues, Germantown.

Morris S. Miller (O), Commonwealth Building. Cost, \$30,000. Apartment house, brick, 3 stories, 20x151 feet, Broad and Dauphin streets.

Smith Drum Co. (O), Allegheny avenue and Lawrence street. Cost, \$15,000. Manufacturing, brick, 2 stories, 90x164 feet, Allegheny avenue and Lawrence street.

C. Dear (O), 4905 York road. Cost, \$3,600. Three dwellings, stone, 2 stories, 14x26 feet, 4819 to 4823 North Second street.

E. M. Harris (O), 50 North Twenty-third street. William Steele & Sons Co. (C), Sixteenth and Arch streets. Cost, \$275,000. Commercial building, concrete, 8 stories, 102x207 feet, Twenty-third and Market street, Philadelphia.

Wendell & Smith (O), Overbrook, Pa. M. W. Young (C), Overbrook, Pa. Cost, \$10,000. Residence, stone, 3 stories, 39x41 feet, Sixty-sixth and Overbrook avenue.

N. A. Zimmerman (O), 4809 Garden street, Bridesburg, Pa. G. Corosky (C), Tacony, Pa. Cost, \$5,800. Two stores and dwellings, brick, 2 stories, 16x60 feet, Richmond and Pratt streets.

D. Goldstein (O), Sixth and Jackson streets. Cost, \$10,000. Five dwellings, brick, 2 stories, 17x23 feet, Allegheny avenue and Fox street.

Ed. Watson (O), Ogle street. G. W. Robinson (C), 515 Conarroe street. Cost, \$2,600. Dwelling, stone, 2 stories, 16x44 feet, Levering and Smick streets.

G. A. Sim (O), Pratt street. A. Ahlers (C), 1815 Howell street. Cost, \$6,000. Four dwellings, brick, 2 stories, 14x42 feet, Richmond and Brill streets.

Abbott Estate (O), Abbott Building. J. Richard Jackson (C), Perry Building. Cost, \$7,000. Manufacturing building, brick, 2 stories, 54x76 feet, 2503 East Thompson street.

W. Galt, Jr., (O), Wizard avenue and Ridge avenue. J. F. Davies (C), 1215 Filbert street. Cost, \$9,000. Dwelling, stone, 3 stories, 42x31 feet, Wizard and Ridge avenues.

M. H. Scholl (O), 126 East Pomona Terrace. L. W. Kitselman (C), 125 East Upsal street. Cost, \$35,000. Dwelling, stone, 3 stories, 16x40 feet, 200 West Durham street.

J. M. Peters (O), 116 North Nineteenth street. F. A. Bihlman (C), 149 East Cambria street. Cost, \$11,200. Seven dwellings, brick, 2 stories, 15x32 feet, 5100 Penn street.

J. Y. T. Adair (O), 6900 Second street Pike. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x42 feet, Unruth and Bingham streets.

M. Stevens (O), 912 Fenshaw street. Cost, \$2,800. Dwelling, 3 stories, 16x40 feet, 912 Fenshaw street.

A. Graboyes (O), 1021 North Front street. J. DeFrehm (C), 4226 Sydenham street. Cost, \$8,620. Two dwellings, brick, 3 stories, 16x34 feet. Cost \$4,300. One store and dwelling, 3927-29 North Broad street.

S. W. Lance (O), 3523 Smedley street. A. M. Lance (C), Hain and Limekiln Pike. Cost, \$1,400. Dwelling, brick, 2 stories, 14x30 feet, Williams avenue and Limekiln Pike.

Ed. Stott (O), 5430 North Water street. Cost, \$8,000. Four dwellings, brick, 2 stories, 14x29 feet, Third and Duncannon streets.

Hortter street. A. R. Smith (C), 5618 Germantown avenue. Cost, \$1,000. Garage, Lincoln Drive and Hortter street.

Y. W. C. A. (O), 5820 Germantown avenue. W. J. Gruhler Co. (C), 219 High street. Cost, \$1,000. Dwelling, 5820 Germantown avenue.

Nixon Paper Co. (O), Manayunk, Philadelphia. Brown Const. Co. (C), 4600 Main street. Cost, \$1,000. Tank, Manayunk, Philadelphia.

A. C. Krum & Son (O), 1016 Dakota street. F. A. Havens Co. (C), 845 North Nineteenth street. Cost, \$1,000. Factory, 1016 Dakota street.

E. H. Coates (O), 2024 Spruce street. W. J. Gruhler (C), 219 High street. Cost, \$1,200. Residence, 2024 Spruce street.

Kessler Wagon Works (O), Aramingo and Girard avenue. J. N. Gill Co. (C), Heed Building. Cost, \$925. Wagon works, Aramingo and Girard avenue.

General Manufacturing Co. (O), Thirtieth and Market streets. F. W. Van Loon (C), Denckla Building. Cost, \$3,000. Factory (C), Swanson and Snyder avenue.

A. E. Stewart (O), 1622 North Twenty-sixth street. H. F. Otteni (C), 51 North Fifty-third street. Cost, \$3,000. Garage, Fifty-fifth and Walnut streets.

N. MacNeil (O), 6161 Columbia avenue. J. McGrath (C), Sixty-first and Haverford avenue. Cost, \$1,050. Garage, 6161 Columbia avenue.

J. T. Lewis & Bros. (O), Hunting Park avenue and Aramingo street. Unit Const. Co. (C), Stock Exchange Building. Cost, \$1,000. Shop, Hunting Park avenue and Aramingo street.

F. G. Nixon-Nirdlinger (O), Forrest Building. Lam Building Co. (C), 1001 Wood street. Cost, \$1,670. Store, Broad and Montgomery avenue.

Simon Weiss (O), 524 Walnut street. A. Kerpiewikoff (C), 709 Parrish street. Cost, \$1,200. Store and dwelling, Fifty-fourth and Pine streets.

A. Graboyes (O), 1021 North Front street. J. Gorchov (C), 317 Reed street. Cost, \$2,600. Store and dwelling, 1002 Marshall street.

Frank Fitzpatrick (O), Fifty-ninth and Lansdowne avenue. Cost, \$2,200. Garage, Fifty-ninth and Lansdowne avenue.

W. V. Smalley (O), 2107 East Somerset street. G. F. Jackson (O), 1848 East Allegheny avenue. Cost, \$2,600. Factory, Collins and Tioga streets.

Eastern Lamp Company (O), Eighty-fourth and Bartram avenue. Jos. Bobb (C), 1001 McKean street. Cost, \$5,000. Factory, Eighty-fourth and Bartram avenue.

A. Goodfriend (O), Ninth and McKean streets. F. McCullough Construction Company (C), 1218 Chestnut street. Cost, \$1,580. Store and dwelling, 1636 Wolf street.

W. J. McCahan Sugar Company (O), Tasker street Wharf. Cost, \$10,000. Storage house, Tasker street Wharf.

Alterations and Additions

W. Moening (O), 441 North Eighth street. E. Rieben (C), 3632 Cumberland street. Cost, \$1,675. Store and dwelling, 463 North Eighth street.

A. De Cerba (O), 2943 Diamond street. E. Rieben (C), 2632 Cumberland street. Cost, \$1,250. Dwelling, 2941 Diamond street.

D. C. Cochran (O), Twenty-first and Chestnut streets. B. Bornstein (C), 412 South Fifth street. Cost, \$1,200. Shop and store, 1214 Sansom street.

Frankford Hospital (O), Frankford avenue and Wakefield street. A. R. Raff (C), 1635

Thompson street. Cost, \$14,000. Hospital, Frankford avenue and Wakefield street.

Mrs. M. Robb (O), 244 South Sixtieth street. H. Reusswick (C), 137 North Tenth street. Cost, \$3,000. Store and dwelling 646 South Sixtieth street.

S. C. Kraus (O), 512 South Fifth street. Harry Miller (C), 427 Catherine street. Cost, \$1,000. Store and dwelling, 408-10 Fitzwater street.

G. T. Schnatz (O), 433 West Upsal street. A. R. Smith (C), 5618 Germantown avenue. Cost, \$1,200. Garage, 433 West Upsal street.

G. H. Myers, Jr. (O), Lincoln Drive and

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

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DO'S AND DON'TS FOR THE HOME BUILDER

James Edmund Jones.

Swing bed room doors so that when partly open they do not expose the bed to view.

Make liberal allowances for switches for electric light. Most people spend money unnecessarily for extra switches after house is finished.

Put hot water boiler elsewhere than in kitchen, which is usually quite warm enough. Indeed, most maids keep a door or window open and chill the rest of the house in their effort to keep cool. Don't place boiler in cellar as it radiates heat which may be economically used elsewhere.

Plan kitchen to face the east, as light is required most in the morning. Allow plenty of window space in the kitchen.

Plan to fill ice box through an opening from outside the house, where there should be a tap to wash the ice and a drain to carry off the water.

Supply two-inch water main from street, smaller pipe does not give sufficient pressure. See that pipe from the street is lead or galvanized iron, as ordinary iron rusts.

Place sink where drip-boards may be built on both sides. One for dishes to be washed and the other for dishes ready for drying. Place sink where light, both natural and artificial, is good so that dishes may be thoroughly washed.

Place laundry tubs at least two feet away from the wall, where light is almost sure to be better. It is easier to keep floor clean and sweet and pipes are less likely to freeze. Besides the launderer can handle wringer, etc., to better advantage.

provide drains in laundry and elsewhere in cellar so that floors may be washed off with hose.

Provide a root cellar under veranda or elsewhere, where there are no pipes. Do not concrete the floor, as vegetables, etc., keep better. If you have such a cellar you can keep down the high cost of living by obtaining goods in wholesale quantities.

Install a coal chute in one of the many modern improved forms. See that openings to clothes chute are not any larger than necessary and are placed high from the floor, so that little children may not be in danger.

See that laundry windows are large—area them if necessary. Have exit from laundry convenient to back yard.

Have an outside entrance, as well as one to the cellar, from the kitchen.

Place a small light in a conspicuous place in the kitchen to indicate whether the cellar switch has been turned off.

Make sure that switches are not placed behind doors or in other inconvenient places.

Have plenty of base-board outlets to supply piano, library and den tables, etc., and arrange outlets in dining room so as to give a choice between direct and indirect lighting.

In planning the shape of the bed rooms, place all your furniture and mark it on the plan. Don't forget the radiators, but place them so they do not occupy valuable wall space.

Over the beds have wall lights which may be turned on and off by a chain when one

has retired. Be sure to place lights in bath room so that a man may see both sides of his face when shaving. Have medicine cupboards over the lavatories in the bath room and elsewhere with mirrors in the doors.

There is usually some waste wall space in a bed room where a small bookcase may be built into the wall for favorite books. This makes a guest's bed chamber especially attractive.

See that the picture mouldings are included in the original contract so as to reduce the amount of inevitable extras.

Have removable panel under the staircase or elsewhere to make a secret cupboard to store valuable goods when the family is away.

Have a small safe built into a brick wall.

Have electric lights in the clothes closets if possible.

Have a high-up medicine cupboard where poisons and medicines may be safely kept out of the reach of children.

Have at least one of the doors of the linen closets drop so as to make a table upon which linen may be laid previous to distributing it.

See that the back stairs are properly lighted.

To minimize the up-keep in painting, have only the amount of woodwork necessary to give a substantial appearance.

Have the best veranda at the back, where privacy may be found, and have an exit to it from the dining room or living room.

If possible, provide a stoop or veranda for maids.

An extra small gas range in pantry or elsewhere is convenient for preserving and for small suppers.

Provide dumb waiter to carry coal to upstairs grates and to carry meals to members of the family in case of illness.

(Continued on page 666.)

Bell Phone, Spruce 6612 Keystone Phone, Race 2799

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Irving Dillon. Editor

PHILADELPHIA, PA., OCTOBER 14, 1914.

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(Organized 1857)

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Editorial Comment

Near Tinker's Creek, Cuyahoga County, Ohio, is a piece of paving that is attracting the interest of contractors all over the country. This magnetic piece of paving consists of about seventy square yards of brick roadway from which the big floods of March, 1913, have washed away the underpinning, leaving the thin top sheathing of brick, grouted in cement, on unsupported shell. The first thought of the supervisors following the subsidence of the flood was to tear down this undermined roadway as dangerous to life and limb. A man with a sledge was set at work to demolish it. When he had labored for ten minutes and had only broken a single brick the supervisors decided that the road could not be so very dangerous after all and permitted it to stand. And there it stands yet, a marvel to all who behold it and a source of unending amazement to every contractor, engineer and material man who happens to visit in that section.

For sixteen months this brick pavement, seventy square yards in extent, has hung over the void near Tucker's Creek, Cuyahoga County, Ohio. Now the county commissioners are preparing to put a roadway and a base under it.

There is no apparent reason for this step, except the caution which is always counted an official virtue. The pavement had projected like a roomy shelf over the void, eighty feet long and 6½ feet in width, ever since March, 1913. For some time the pavement was used without a guard rail. Later a guard rail was erected to keep vehicles from venturing over the edge of the shelf.

It will be remembered that floods visited Ohio in March, 1913. Dayton was the heaviest sufferer. Northern Ohio, owing to the depth of its river valleys, escaped with little damage. Part of the damage, however, occurred where Tinker's Creek ran parallel to Dunham road. At this point a retaining wall of heavy stone blocks had been erected and the road built up to a height of some twelve feet above the bed of the creek. Upon the fill a modern brick pavement with a concrete base had been constructed.

The flood completely submerged the road for several days and when it receded, it was found that the wall had been undermined and scattered for a distance of several hundred feet down stream. Nearly half of the roadway had been excavated by the force of the water and the concrete base, deprived of its support, dropped to the bed of the creek.

All that remained was the actual pavement, an unbroken surface of well grouted brick. The first impulse of the road authorities was to break down the brick shell, to prevent its use, and to rebuild the entire road from the bottom, but finally allowed it to stand.

The fame of the phenomenon spread and people came by the score to behold a highway supported by thin air. Innumerable automobiles ventured to the edge of the over-

hang, until caution dictated a fence along its edge to prevent vehicles from plunging into the creek. A portion of the width of the overhang, however, has always been subjected to traffic since the washout.

"The incident," comments a writer in "American Carpenter & Builder," "has proved a most effective lesson in a cardinal principle of good paving practice, a principle which has made Cuyahoga County roads conspicuous throughout the country. That is the proper use of a grout filler composed of one part Portland cement and one part of fine sharp sand.

"This lesson was not learned in a day, either in Cuyahoga County or elsewhere. Its experimental era was marked by many roads of merit. The early builders were fortunate in being allowed to correct their own mistakes, as well as in the fact that they prepared a type of road that would withstand auto traffic long before that traffic could have been foreseen.

"The Dunham road pavement presents no unusual features, excepting the strange test to which it was subjected; which, impressive as it is, was made under conditions, the identical of which might not be found in any properly constructed brick highway.

"Arch action can have played no part in maintaining the pavement's position. The longitudinal grade of the unsupported portion is an almost perfect level. There is a slight lateral crown comparable to a half-arch, but it is the crown rather than the base of the arch which is supported. The base has no support excepting the lateral bond.

"Lest authorities seem to have been remiss in allowing repairs to be so long delayed, it is only fair to say that the principal delay was caused by a project to divert the road, which would have involved the condemnation of land and other lengthy controversy. The delay, however, has been an advantage from the standpoint of the test, as time and the frost action of a severe winter have made the demonstration daily more impressive and opportunity has been afforded for a large number of paving experts to visit the scene and glean such practical lessons as might be had from close inspection."

* * *

While in Denver recently Mr. Lawson Purdy, of the Board of Tax Commissioners of New York City, addressed the members of the Chamber of Commerce of that city upon the wisdom of regulating the height and bulk of buildings. As an authority upon many phases of municipal management and one of the best informed men in the United States on the subject of taxable values and the considerations, permanent or occasional, which influence these, Mr. Purdy's address was listened to with the most marked attention. The ideas advanced by Mr. Purdy are so fairly applicable to conditions in the average large city other than New York and the

remedies suggested by him so adaptable to conditions elsewhere that we cannot refrain from quoting them at some length. Said Mr. Purdy, in part:

"In my official capacity during the last eight years I have probably examined in the neighborhood of fifty thousand applications for the reduction of the assessed value of real estate. In a surprisingly large number of cases these applications have been based upon a depreciation in value caused by the erection of neighboring buildings which have cut off light and air and even impaired facilities of access. These conditions led to the appointment by the Board of Estimate and Apportionment of a committee to consider the subject of regulation.

"The committee appointed a commission, of which I was a member. The commission after nine months' work recommended amendments to the New York Charter, which will confer power upon the Board of Estimate and Apportionment to divide the city into districts and to impose suitable regulations upon height and bulk of buildings within each district; also to divide the city into districts and to prescribe that no building hereafter erected shall be erected within certain districts for specified uses regarded by the Board as detrimental to that district. The legislation proposed by the commission was enacted by the Legislature of 1914, and a new commission has been appointed by the Board of Estimate to advise them concerning the proper regulations.

"You may think that there is yet ample time and that Denver stands in no need of such regulation. May I suggest to you that the time to impose your regulations is in advance of their apparent need? When once you need them it is too late; you have permitted the erection of unsuitable buildings which will cause loss and damage, and which, by reason of the stimulation of land values in certain sections will prevent the adoption of suitable regulations in those sections for a long time to come.

"The general rule which I think must appeal to the sense of fairness of everyone is that no building should be permitted which would not be suitable as a type for all the buildings within a territory suitable for such buildings. This statement means that each man should depend upon his own lot for his own light and air and should not be allowed to steal his neighbor's light and air. It must be quite obvious that it would not be suitable to cover half a dozen of your blocks with buildings thirty stories high; there would not be adequate light, air and access for any of them. To a degree that is what we have done in New York.

"In downtown Manhattan we have erected so many high office buildings that on certain blocks the light and air is far from adequate, and the streets are not one-third sufficient to accommodate the traffic. Every city owes to its inhabitants protection from the ill-advised aggressions of their neighbors; a man should be able to build a dwelling or a business building with certainty that no building will be allowed in the future which will

interfere with his enjoyment of all the light, air and access necessary and proper for the lot upon which his building is erected.

"The idea that intelligent self-interest is a sufficient safeguard without city regulation must be abandoned in the light of the New York experience. Many, many buildings have been erected in New York which do not pay and which caused damage to innocent neighbors as well as to their own owners.

"You, here, have a splendid opportunity; to a remarkable degree your houses are built of brick and stone and generally are low; they are most attractive. You can preserve the health and safety of this community by timely and appropriate regulation."

* * *

There's a note of warning in these suggestions to the city of Denver that should be heeded in other large urban centers. One of the wisest of Mr. Purdy's many shrewdly-reasoned remarks is that regulation is too late when the need for it becomes sharply apparent. The plausible way to regulate building heights is to set a limit before the evil takes a deep root in common usage. Checking abuses legalized by years of toleration is up-hill work. Mr. Purdy's advice to Denver is good advice. It is good advice to other cities and quite as applicable.

* * *

For the benefit of those Philadelphians who permit themselves to be misled by sensational newspapers into the belief that Philadelphia is a grossly-mismanaged city we beg to quote the following interesting resume of the financial status of "little old New York." Writing on the financial outlook for that city, Mr. Henry H. Klein observes in "The New York Real Estate Record":

"The patriotism of Wall street is so pronounced that the details of the new \$100,000,000 loan to the city of New York should be fully understood.

"The City of New York has been spending \$250,000,000 a year for routine administration, interest and redemption on the public debt, and so-called permanent improvements. In addition to this, the city has been borrowing an average of \$100,000,000 a year on revenue notes in anticipation of taxes, incurring an added obligation of about \$4,000,000 a year interest. The eighty million dollars due abroad were borrowed mainly for this purpose.

"The City of New York has a permanent interest bearing debt of more than one billion dollars, the interest being about \$44,000,000 a year. This sum is more than one-quarter of the total amount raised by taxation each year (\$150,000,000), the remainder of the annual budget (\$193,000,000 in 1914), being made up by income on public property. On the temporary yearly loan in anticipation of taxes, the city receives two per cent. and pays from four to six per cent. interest and the bankers use the money which remains in their vaults. Their profits on city deposits are sometimes abnormal.

"The war in Europe has emphasized the utter helplessness of cities which depend on

bankers for their financing. New York City, for example, with an annual income of \$193,000,000, is unable to meet its routine expenses without borrowing, and the city must now pay six per cent. on a temporary loan of \$100,000,000. The failure of other large cities recently to dispose of their bonds proves that the aid of the bankers is no longer adequate.

"New York City is in peril financially because of its excessive bonded debt, extravagant government and the inability of its taxpayers to pay taxes. The value of real estate has greatly depreciated in recent years and the city's borrowing margin is disappearing. The city's borrowing capacity is ten per cent. of the assessed value of its taxable property. It has more than \$150,000,000 taxes and assessments uncollected and the plight of the taxpayer is plain when it is known that the city has been compelled to buy in its own tax liens in the past few years.

"New York City was under no compulsion from the bankers to accept the rate of \$5.035 per pound sterling and 20 cents a franc for the \$80,000,000 foreign gold debt. The exchange premium means an addition of \$2,800,000 to the interest cost of 4¼ per cent., or a total cost of \$6,200,000 for the use of \$80,000,000 for one year; equivalent to 7¾ per cent. The cost of the \$80,000,000 for the second year at six per cent. is \$4,800,000, or a total of \$11,000,000 interest and premium for two years. In addition the city is paying \$1,200,000 for the use of \$20,000,000 for one year, or a total interest and premium of \$12,200,000 in two years.

"The City of New York was not justified in accepting an exorbitant exchange rate on \$80,000,000, because not more than one-sixth of this debt was due and payable within thirty days. The balance falls due during the next three months. Since the excessive premium was accepted the exchange rate has fallen to nearly normal. The difference up to two per cent. between the rate accepted by the city and the rate that will actually be paid, goes to those interests who organized

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the syndicate to take up the new \$100,000,000 loan. Their potential profit is \$1,600,000, equivalent to two points in the tax rate.

"The extravagant cost of the new loan must be met by taxation. The principal will be converted into fifteen-year instalment bonds or notes, instalment and interest being included in the annual budget. This means an addition of \$10,000,000 a year to the budget after the full conversion of the loan which begins in 1918, after the retirement of the present city officials. The budgets for 1915, 1916 and 1917 will be increased from six to ten million dollars each unless corresponding cuts are made.

"The budget for 1914 was \$193,000,000 exclusive of corporate stock issues. The budget for 1918 will be at least \$213,000,000 unless twenty million dollars are cut out of the present budget. This can be done only by wholesale dismissal of city employes or by a general reduction in salaries. The addition of twenty million dollars to the 1918 budget allows only \$10,000,000 for new improvements after a dearth of improvements for four preceding years.

"The tax rate for 1914 is from 1.81 to 1.91, according to boroughs. The tax rate for 1918 will be from 2.06 to 2.16 unless the budget is reduced to offset the increase. The constitutional limit of taxation in New York State is two per cent., exclusive of the debt service which in New York City is about \$53,000,000 a year. The tax rate can rise to 2.60 including the debt service before the legal limit is reached. Before that time New York City will be bankrupt. The steady increase in the tax rate and in the city's annual expenses due to the new loan and the financing of new improvements out of the budget, will cause further depreciation in real estate values. The city's borrowing margin will disappear and bankers will be unwilling to lend

money on yearly revenue notes except at exorbitant interest, when taxes are uncollectible. There is but one way that the city can be saved from financial exhaustion, and that is by the discovery of new revenue to relieve the burden on real estate. It is either confiscation of private property through excessive taxation, or new wealth to provide for the city's needs."

* * *

And yet we have nervous, overwrought folk here in Philadelphia who talk about Philadelphia's comparatively small and certainly not at all pressing obligations as if they were equal to those of New York!

DO'S AND DON'TS FOR THE HOME BUILDER.

(Continued from page 663.)

Provide extension carriers in closets so that seven or eight suits may be hung in the space usually occupied by one.

Have tin lined closet for storing furs, etc., and place it in a cool portion of the house, where moths are not so likely to thrive.

Have two closets in parents' room.

Plan one bed room at least to accommodate a cot as well as a bed, as this is most useful in case of illness.

Have a place to deliver milk without entering the house, and see that it is so planned that the milk will not freeze in the winter.

Have a cold pantry off the kitchen, or if this is not possible, build a table in the porch outside the kitchen door, where viands may be left to cool.

Provide maids' sitting room and bath room if possible.

Put a grate in one of the sun rooms. If you wish to save money on fireplaces, finish in stucco instead of brick or tile.

Provide full length mirror in at least one bed room on a closet door. If the closet has double doors, a mirror on the inside of each will enable a person to get both front and back views at the same time by swinging the doors to catch the reflection.

See that the plumber supplies taps upon which washers may be easily replaced by the owner, who can thus save much in plumbing bills.

Have all the plumbing fixtures the same make, so that when repairs are needed there are no unnecessary trips by the plumber.

See that the sill-cocks project sufficiently so that water dripping will not disfigure the wall.

Place the number of the house where it can be seen at night so as to save unnecessary rings.

Make sure that treads of steps are sufficiently wide, so as not to be dangerous in wintry weather.

If you do not have a garbage incinerator, secure a system which is underground in a concrete chamber that may be flushed out by hose by means of a drain, should the chamber become fouled by garbage escaping from pail. There is one on the market so contrived that the top may be raised by a movement of the foot; thus the garbage is pro-

tected from flies, and also from hard frosts, which sometimes otherwise make it difficult to empty the pail.

Don't forget that even if you do not like a shower bath, the man you want to sell your house to later may not buy it if the bath room is too small to hold a shower.

Avoid dust catchers of all kinds.

Let the front door bell ring both in the kitchen and attic.

Provide convenient place to store lawn mower and garden tools.

See that double windows are included at the outset, as this is an inevitable extra. Provide sliding panes and not the inadequate small ventilators.—J. E. Jones, in "Keith's Magazine."

THE QUESTION OF GARBAGE DISPOSAL.

The City Councils of various municipalities, City and State Boards of Health, health officers generally and improvement societies, have been spending considerable time during the last few months agitating the question of garbage disposal. Much attention is given to considering the various methods of destroying garbage and refuse away from the place where it originates, while too little, or no attention at all, is given to the disposal of garbage at the place of its origin.

Manifestly, the cleanly way of disposing of garbage is by incineration. And if the garbage is destroyed through burning while it is still fresh and untainted, it is a big advantage.

There is a very important point in favor of the destruction of garbage at its place of origin. One ton of garbage contains, in heat value, the equivalent of 200 pounds of coal. Hence, garbage is worth as fuel, one-tenth of the price of coal. Therefore, the owner who has his garbage hauled away is actually giving away good heat producing matter. In some cases he must pay to have it hauled away.

One big step toward the final solution of the garbage problem is undoubtedly the installation of garbage burners, in restaurants, hotels, hospitals, apartment buildings and larger residences. Obviously the apartment building containing two, four, six or more families is a large producer of garbage. And figures have been compiled which prove beyond any doubt that a law compelling apartment owners to install garbage burners would be not an imposed hardship, but an imposed economy upon the owner.

The problem of garbage disposal and the problem of hot water supply have become strangely related. There are to-day on the market several types of garbage burners which will satisfactorily burn garbage and refuse and at the same time use the garbage as fuel for heating water for domestic purposes.

The Maryland Hotel, St. Louis, installed a garbage burner a year or more ago. This hotel has 125 baths, 255 washstands and kitchen facilities large enough to take care

of 1,000 people. Their statement is that this garbage burner not only supplies them all the hot water they use, but burns all the rubbish and trash, about twenty barrels per day, at a cost of 65 cents per day.

Further opportunity for the economical use of a garbage burner of this type is shown in the installation of a water heating garbage burner in the ten-story and basement building, owned and occupied by Messrs. Lewis & Conger, New York City. The entire basement of this building is used as a shipping and receiving room, in the boiler room of which is placed a garbage burner connected to a horizontal storage tank of 250 gallons capacity.

The burner is used to consume the waste material accumulating around the shipping, packing and receiving rooms, and this refuse, used as fuel, with the addition of 150 pounds of coal per day, furnishes sufficient heat to supply the entire building with hot water. This building requires about 2,500 gallons of hot water per day. The amount of heat required to raise the temperature of that amount of water 150 degrees F. is approximately 3,200,000 heat units. In one pound of coal there are about 8,000 heat units; therefore,

the 150 pounds of coal used supply 1,200,000 of the 3,200,000 heat units wanted. Therefore, the garbage, waste, straw, hay and paper used in the garbage burner provide two-thirds of the fuel necessary to heat all the water used in this building.

In other words, the waste material consumed is equivalent in value to from 250 to 300 pounds of coal. A fair average price of coal in New York is \$6.50 per ton, which makes it a fair figure to estimate the worth of this waste matter used from a fuel standpoint at from 82 to 90 cents per day. In this case the value is really three-fold. The rubbish, old papers, etc., are gotten out of the way, necessary hot water is heated and the fire risk is greatly reduced.

It would, of course, be folly to recommend the installation of a garbage burner in every establishment, but there is absolutely no doubt that in a great many establishments, and this is possible always true in the case of apartment buildings, a garbage burner would eliminate the garbage and at the same time effect an economy for the owner in reducing the cost of the hot water which he must furnish his tenants.—Elmer S. Leffel, in "Municipal Engineering."

BRONZE

(Paper written for the Society of Constructors of Federal Buildings.)

It is but a few years comparatively since bronze was practically unknown in the general practice of architecture in this country, and in most modern architectural text-books the subject is scarcely mentioned, or not at all.

But a short time ago exterior and interior fittings and trim for costly public and private buildings were of wood, sometimes handsomely carved, but as we now see it, heavy and cumbersome. To-day a lighter and more cheery aspect has taken its place, through the use of bronze, which we now look up to, not only as minimizing the fire hazard, but with pride, satisfaction and public appreciation.

In the early ages of the world's history bronze work was separated into two broad classes, cast and hammered, but in recent years have come many other processes together with bronze-covered work. The origin of the age of bronze is lost in remote antiquity, but in no essential did the earliest known methods of molding and casting differ from those of the present time.

The introduction of labor-saving devices and improved methods of construction have been potent factors in reducing the former high cost, and bringing this work into more general use, as well as the low cost of maintenance and absence of depreciation.

Many manufacturers take pride in their products. Castings, clean and smooth with ornamental detail, are executed with a crisp and sharp distinctiveness, and in their model-

ing departments employ the most skillful modelers and wax workers.

Of recent years the best American shops have been training mechanics especially for this class of work, and so far has the standard advanced that the American product at its best is in no way inferior to that of the European craftsmen.

A recent visit to one of the largest bronze works near New York City, the writer found most interesting.

There are many kinds of bronze—differing in their proportions and constituents, according to the purposes for which they are to be used, but we are interested more especially in those entering into building construction and equipment, and the following are therefore mentioned:

Phosphor Bronze.

The main feature of this bronze is its remarkable hardness and resistance to wear, and where this quality is required there is no alloy to surpass it. When lead is added it may be used for bearings and pivots.

A standard formula for phosphor bronze for boiler fittings, pumps, etc., is 79.7 per cent. copper, 10 per cent. tin, 9.5 per cent. lead, 8 per cent. phosphorus.

Manganese Bronzes.

Their principal feature being their strength at high temperatures. The addition of manganese does not materially harden the copper, but raises its tensile strength. Some of these compositions, cold rolled, have an ultimate

tensile strength of 50 tons per square inch, and would be composed of about 84 per cent. copper, 10 per cent. tin, 6 per cent. ferromanganese. With the addition of aluminum the alloy shows a remarkable property of resistance to the action of corrosive liquids.

Aluminum Bronze.

Applied to alloys of copper and aluminum containing from 2 to 10 per cent. of aluminum—gives a beautiful color very closely resembling pure gold, used largely in art castings and cheap jewelry.

A good bronze mixture, as used in modern ornamental work, contains about 89 per cent. copper and 11 per cent. tin.

We are all more or less familiar with most beautiful specimens of highly wrought bronze. The metal being softer than iron is much easier to shape and the results depend upon the art of the worker.

The methods of making bronze castings do not differ in principle from those for making iron castings of the same dimensions.

The ordinary type of furnace for bronze casting is sunk under the floor level. The crucibles are of graphite.

Success in casting depends not only on the skill and care of the mechanics, but on correct and well made patterns, which are usually of wood, although metal patterns are made when many castings are required. The thickness of the metal may be reduced to the minimum by using a false core or drawback. The pattern must be made larger than the casting required to allow for shrinkage, which is usually about one-quarter of an inch to the foot, and ample for the finishing of the casting later.

Rounded edges are easier to cast than sharp edges and angles, which do not leave the sand as readily without causing defects. Wood patterns are shellacked to protect them from the moist sand and allow the pattern to leave the sand freely.

Special sand is procured for fine cast work and loam mixed with it. When an opening is to be left in the casting a core of baked sand of the exact size and shape of the opening required is placed in the mold, and the molten metal runs around it.

A few of the most common defects in castings may be mentioned. Minute holes showing an even surface are caused through carelessness in making the molds or in handling them after they are made—loose sand being allowed to fall into the pattern prints. When the metal is poured in the sand and metal become mixed. This can be avoided to some extent if a bellows is used to clean out the molds before being put together. Blow holes are not generally noted until after the casting has been cleaned. They are due to moisture in the molds which generates steam, and if there are no vents, these defects occur. Clogging is when a casting instead of coming clear has lumps of metal in the ridges, etc., and is the fault of the pattern. Misshapen castings may be caused through the molds not having been screwed up tight enough.

From the foundry the castings are cleaned

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of the sand, and then comes the fine and careful chasing. Castings, in the eyes of the uninitiated utterly ruined, and apparently fit for the scrap pile, bent out of shape, with flutings of columns warped, and ornament otherwise full of voids and defects, when finished and hand-chased are found to be as beautiful and sound, apparently, as the most perfect casting. In this condition they reach the assembling room. Bronze castings are generally in small sections. In the case of a ten-foot long entablature for a bay in the post office lobby, this would be cast in three or four sections and soldered together so that the joints can hardly be seen on the closest inspection. In the assembling room the work is fitted and put together in such sections as can be easily shipped. It then goes to the plating department, where it receives the approved finish, and may be treated by special processes to represent any age.

It is often desirable to produce certain artificial effects of color or tone to render the work attractive. These effects are produced by several well-known means. Modifications are constantly sought for with a view of giving variety. Many finishes are put on by secret processes.

It is essential that cleanliness be observed in the preparation of the bronze to receive the deposit, as the merest speck of tarnish, oxide or grease, such as may result from merely fingering it, suffices to prevent the adhesion of the coating metal at the points affected. The metal is first dipped into a cleaning solution of potash, nitrous acid or sulphuric acid and water, which restores its natural brilliancy.

The electro-plating solution to be deposited on the bronze varies according to the finish desired. Almost any shade from brown to red can be obtained by timing the immersion in a solution of nitrate of iron and hyposulphite of soda, afterwards washing in water and drying in sawdust. To bring out the finishes mechanical treatment is given, such as scouring with sand and pumice, using various types of brushes and polishing with a lathe and dolly.

For a green or antique bronze, a solution may be used composed of acetic acid, carbonate of ammonia, or sal-ammoniac and common salt, cream of tartar and acetate of copper. At the end of 36 hours the bronze will be found to be entirely covered with verdigris which presents various tints. The prominent parts may then be brushed with a waxed brush. The relief parts may be set off with hematite or other suitable colors. Light

touches with ammonia impart a blue shade to the green parts.

Bronze may also be tinted with fumes from chloride of lime over which a little hydrochloric acid has been poured.

Lacquer which is a solution of shellac in alcohol, or spirits of wine when applied for inside work, protects the finished tones and color.

Bronze-Covered Work.

The cores for this work are constructed of white pine, cyprus or oak, the latter used for doors, and before covering are given a bath in linseed oil. Generally the sheet bronze covering varies from No. 16 gauge to 24 gauge. Where the sections are small they are run through a steel die which draws the metal firmly about the core.

For sections too large to pass through dies the covering is drawn under heavy pressure around the wood, eliminating buckles and loose work.

Invisible butt joints are produced by brazing to a bronze plate directly under the joints.

Panels are built up of two sheets of heavy sheet bronze with a sheet of asbestos board between, cemented together under hydraulic pressure.

In the combination of bronze-covered and cast work there is offered a reduction in cost approximating 25 per cent. of the cost of cast bronze.

Extrusion Process.

Bronze moldings, cornices, rails, and pilasters, constant in section, may be manufactured by this process.

A billet is cast of a convenient size, reheated until it is of plastic consistency and then placed within a cylinder, at the end of which is the die.

Hydraulic pressure is applied and the plastic metal forced through the die issuing in a long bar of the cross section required.

The very high pressure, frequently 30 tons to the square inch, to which the semi-plastic metal is subjected, renders it perfectly homogeneous and free from possible casting defects. Shapes which cannot be rolled or drawn can be made readily by this process, which gives uniformity and clean cut architectural lines throughout.

By patent processes ornamental casting in healthy metal can be produced having undercut sections at practically the price of flat ornament, offering the designer possibilities that have heretofore been prohibitive.

The cost of bronze varies considerably in

different sections of the country, especially where transported long distances.

At the San Francisco post office (1903) five pair of ornamental bronze exterior doors, with trim, etc., erected complete, cost \$15,000, or \$47.00 per square foot.

Twelve 10-foot bronze lamps erected complete, cost \$950.00 each.

Fourteen bronze lanterns, about 2x8 feet, cost \$600.00 apiece.

At the San Francisco Custom House (1911) three pair of ornamental bronze doors, with trim, etc., erected complete, cost \$11,200.00, or \$41.00 per square foot.

The following prices are quoted from the Supervising Architect's letter contained in the recent report of the Public Buildings Commission.

One bay (10 to 12 feet) of post office screen:

In bronze	\$1,000
In cast iron.....	335
In wood	250
For bronze desk.....	550
For cast iron desk.....	180
For wood desk.....	125

The cost of lamp standards would vary according to the type; bronze costs about three times as much as cast iron. A fair estimate of the cost of a bronze lamp standard would be \$600 apiece, and for cast iron \$200.

Bronze doors and frames would cost about \$1,200; the same in wood would cost approximately \$250.

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Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
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And therefore is
A goodly thing to try.

—Ex.

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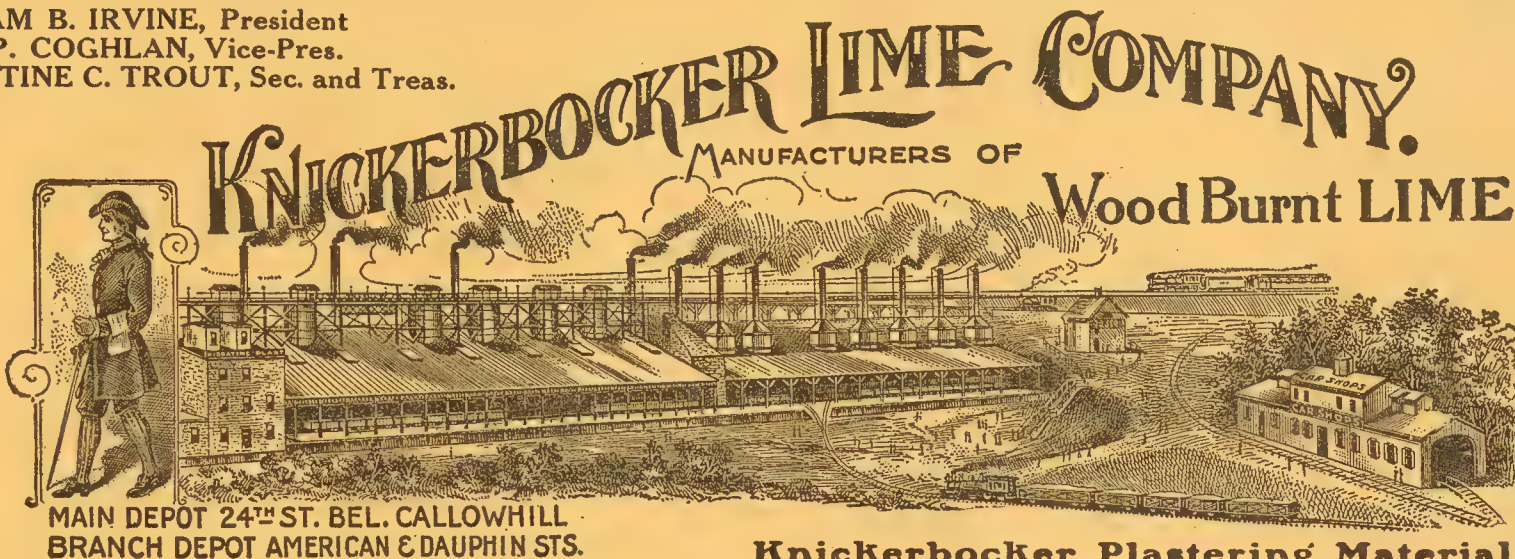
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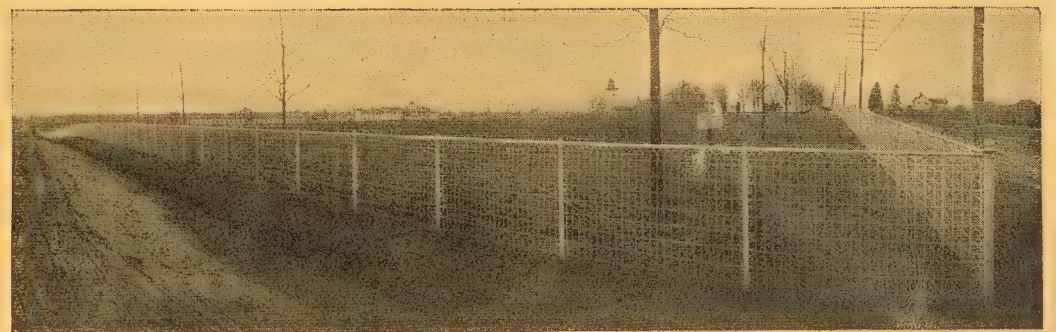
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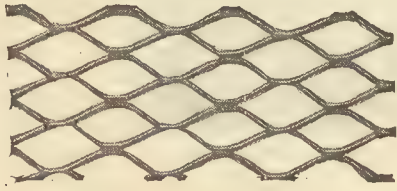
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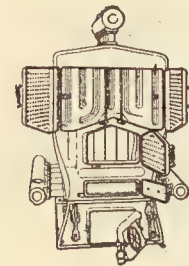
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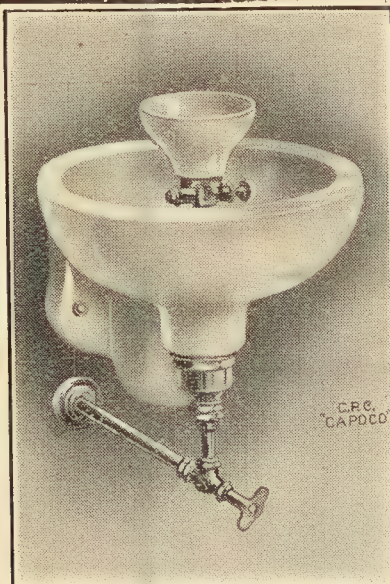


Plate 203 D
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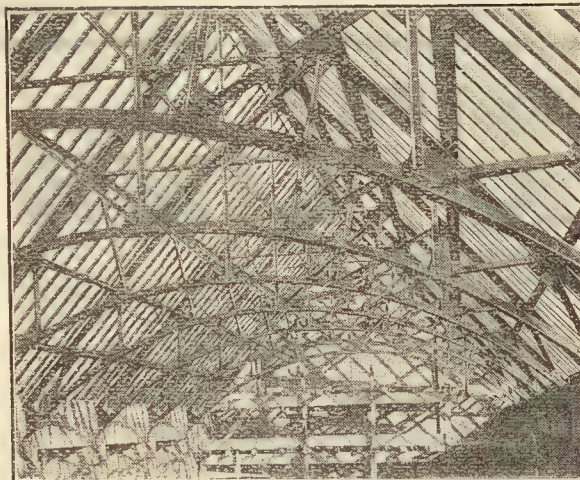


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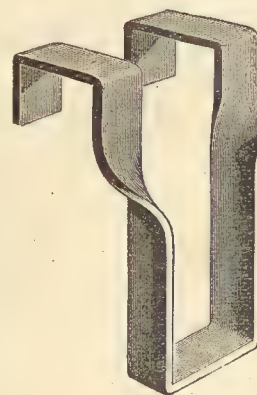


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PHILADELPHIA, WEDNESDAY, OCTOBER 21, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church (Completion), Fifty-seventh and Thompson streets, Philadelphia. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Western Memorial Baptist Church, Fifty-eighth and Thompson streets, Philadelphia. Stone, 1 story, 79x87 feet, slate roof, steam heating and plumbing work, electric lighting, metal frames and sash. Architect taking bids due October 21st. Geo. A. Boyd, 1822 Erie avenue, and Thos. C. Trafford, 1613 Sansom street, Philadelphia, are figuring.

Stores and Garage, 415 North Sixty-third street, Philadelphia. Architect, J. Vaughn Tunnell, 5548 Haverford avenue, Philadelphia. Owner, Clifford W. Miller, 5716 West Girard avenue, Philadelphia. Brick, 1 story, 16x220 feet, slag roof, steam heating, electric lighting. Revised plans in progress.

Store and Dwelling, 602 Green street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, P. Segal, on premises. Brick, 3 stories, 20x40 feet, slag roof, electric lighting. Architect has received bids.

Store and Hall Building, Sixty-second and Woodland avenue, Philadelphia. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, Chas. E. Fitcher, care of J. W. Camac, Sixty-second and Waadland avenue, Philadelphia. Brick and stone, 2 stories, 30x119 feet, slag roof, steam heating, electric lighting, tile floors, metal lath. Architect has received bids.

Building (alt. and add.), 3316 North Broad street, Philadelphia. \$10,000. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, W. H. Battersby, 3748 Germantown avenue, Philadelphia. Brick and terra cotta, 3 stories, 50x75 feet, copper roof, hot water heating, electric lighting, oak and tile floors, metal lath. Owner has received bids.

Stable and Garage (alt. and add.), 4310 Brown street, Philadelphia. Owner, F. D. Evans, on premises. Brick, 1 story, 87x400 feet, slag roof, electric lighting, gasoline storage. Plans completed. Owner ready for bids.

Bridge, Glenwood avenue and Reading Railway, Philadelphia. Engineer, Geo. S. Webster, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Concrete and steel, 57 feet long. Owners taking bids due October 22nd.

Residence, Logan, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, J. H. Clark, Jr., care of architect. Stone, 2½ stories, 33x53 feet, slate and canvas roof, oak floors (heating and lighting, reserved). Revised plans in progress.

Garage, Germantown, Philadelphia. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, name withheld. Brick and concrete, 3 stories, 56x82 feet, slag roof, steam heating, electric lighting, gasoline storage. Plans in progress.

Garage, Van Dyke and Tyson streets, Philadelphia. Architect, private plans. Owner, Henry Tonge, Tacony, Philadelphia. Brick, 1 story, 25x26 feet, slag roof (gasoline storage). Builder F. W. Van Loon, Denckla Building, Philadelphia, is taking sub-bids.

Residence, Wynnefield, Philadelphia. Architects (Assoc.), Frank Seeburger and Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, name withhold. Stone, 3 stories, 110x39 feet, slate roof, hardwood floors, electric lighting (indirect steam heating and plumbing, architects taking separate bids). Architects have received bids.

Factory Building, Eleventh and Brandywine streets, Philadelphia. \$150,000. Architects, Day & Klauder, 925 Chestnut streets, Philadelphia. Owner, Edward J. Schoettle Co., 237 North Sixth street, Philadelphia. Reinforced concrete and brick, 6 stories, slag roof, electric lighting, elevators, steam heating. Plans about completed. Architects will take bids in about one week.

Police and Fire Station, Twenty-second and Hunting Park avenue. \$150,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Brick and stone, 3 stories, slate roof, steam heating, electric lighting. Plans completed. Owners ready for bids.

Play Grounds, Fifty-first and Chester avenue, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Concrete and brick. Consists of walks, driveways and retaining wall. Owners have received bids.

Residence, Chew and High streets, Germantown. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, name withheld. Stone and plaster, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting. Revised plans in progress.

Factory, North Philadelphia. Architect, private plans. Owner, Linde Air Products Co., Forty-second street Building, New York City. Brick, 1 and 2 stories. Plans in progress. Owners will take bids as soon as plans are completed.

Picture Theatre, 4500 Lancaster avenue, Philadelphia. Architect, J. E. Jackson, 727 Walnut street, Philadelphia. Owner, John Fiocca, 841 North Fortieth street, Philadelphia. Brick, 1 story, 35x110 feet, slag roof, steam heating, electric lighting. Plans in progress.

Machine Shop (add.), Seventeenth and Cambria streets, Philadelphia. \$2,500. Architect, private plans. Owners, F. J. Stokes Machine Company, on premises. Brick, 1 story, 32x45 feet, slag roof. Owner taking sub-bids on all lines.

Dwellings (19), Russell and Jasper streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, J. S. Silver, 1912 East Orleans street, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, hot water heating, electric lighting, oak floors. Plans in progress.

Residences (150), Seventeenth and Butler streets, Philadelphia. Architect, private plans. Owner, Frank D. Williams, 3811 North Seventeenth street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hot water heating, electric lighting, oak floors. Owner is taking sub-bids.

Store (alt. and add.), Fifty-sixth and Girard avenue. Architect, H. E. DeHoff, 48 South Sixty-first street. Owner, H. Stubig, on prem-

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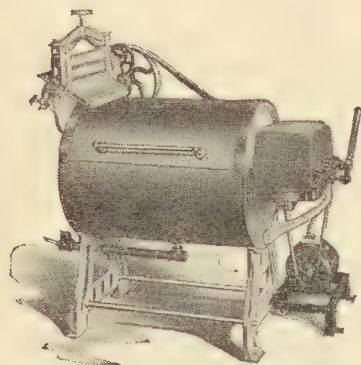
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ises. Brick, 2 stories, 18x35 feet, slag roof, electric light. Architect taking bids, due October 21. W. R. Dougherty, 1610 Sansom street; C. D. Brannekie, 1318 North Sixty-second street, are figuring.

Store and Residence, Twelfth and Spruce

streets. Architect, private plans. Owner, Mrs. Ed. McGittigan, care of George Hogg, 1634 Sansom street. Brick, 3 stories, 19x40 feet, slag roof, hot water heat, electric light. Builder, eGeorge Hogg, 1634 Sansom street, is taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Second and Lehigh avenue, Philadelphia. \$45,000. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Mfg. Co., on premises. Brick and concrete, 2 stories, 38x200 feet, slag roof (electric lighting and heating, separate bids). Contract awarded to Harrison C. Rea Co., 1027 Wood street, Philadelphia.

Sub-Station, Arsenal Bridge, Philadelphia. \$14,000. Architect, Wm. H. Cookman, Broad street Station, Philadelphia. Owner, Pennsylvania Railroad Company, Broad street Station, Philadelphia. Brick and terra cotta, 2 stories, 35x52 feet, composition roof, metal sash and frames, waterproofing. Contract awarded to Armstrong & Latta, Land Title Building, Philadelphia.

Store Building (alt. and add.), 1727 Walnut street, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, John A. McDowell, on premises. Brick and stone, 4 stories, hardwood floors. Consists of new front (heating and lighting, reserved). Contract awarded to Thos. M. Seeds, 1207 Race street, Philadelphia.

Residences (2) (alt. and add.), 418-420 South Twentieth street, Philadelphia. \$5,200. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Wm. Hall, 414 South Twentieth street, Philadelphia. Brick, 3 stories, tin roof, tile work, electric lighting (hot water heating, reserved). Contract awarded to A. Whitehead, Inc., 1624 Latimer street, Philadelphia.

Residence (alt. and add), 5205 Haverford avenue, Philadelphia. \$3,100. Architect, J. C. S. Fernald, 5533 Wyalusing avenue, Phila-

delphia. Owner, Wm. Fleming, on premises. Brick, 2½ stories, 15x34 feet, slag and tin roof, electric lighting (heating, reserved). Contract awarded to P. H. Clemen, William Penn, Montgomery Co., Pa.

Apartments (alt. and add.), 942 South Forty-ninth street, Philadelphia. \$10,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, A. H. Jacobs, on premises. Brick and plaster, 4 stories, slate and slag roof, steam heating, metal lath, electric lighting. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Convent, Twelfth and Spring Garden streets. \$26,000. Architect, Ed. F. Durang & Sons, Twelfth and Chestnut streets. Owners, Church of the Assumption, on premises. Brick and stone, 3 stories, 36x91 feet, slate and slag roof (heat and light reserved), metal lath. Contract awarded to John McShane, 631 North Seventeenth street.

Building (alt. and add.), 3316 North Broad street. \$10,000. Architect, Peter Kuhn, 3058 North Eighth street. Owner, Wm. H. Battersby, 3748 Germantown avenue, Philadelphia. Brick and terra cotta, 3 stories, 50x75 feet, copper roof, hot water heating, electric lighting, oak and tile floors, metal lath. Contract awarded to John W. Mortimer, 3024 E street.

Garage, Front and Richmond streets. Architect, F. N. Greisler, Lafayette Building. Owner, Simon Weil, 3309 North Broad street. Brick, 2 stories, 90x95 feet, slag roof, steam heat, electric lighting. Architect taking additional bids due October 24th. Freund-Seidenbach Company, Bulletin Building, is figuring.

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Store (alt. and add), Fifty-sixth and Girard avenue. Architect, H. E. De Hoff, 48 South Sixty-first street. Owner, H. Stubig, on premises. Brick, 2 stories, 18x35 feet, slag roof electric light. Architect taking bids due October 21. W. R. Dougherty, 1610 Sansom street; C. D. Brannekie, 1318 North Sixty-second street, are figuring.

Factory Building, Front and Florist streets, Philadelphia. \$28,000. Architect, Frederick Webber, Morris Building. Owner, Ferdinand D Flemings, Franklin Bank Building. Brick and concrete, fireproof, 2 stories, 40x99 feet, slag roof, steam heating, electric lighting. Contract awarded to James G. Doak & Company, Crozier Building.

PENNSYLVANIA Construction News

Residence, Villa Nova, Pa. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, Edgar B. Howard, Real Estate Trust Building, Philadelphia. Stone and plaster, 2½ stories, 35x125 feet, slate roof, hot water heating, electric lighting, oak floors. Architects have received bids.

Bank Building, Lewisburg, Pa. \$40,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owner, Lewisburg Trust & Safe Deposit Co., Lewisburg, Pa. Marble or stone, 1 story, 40x80 feet, composition roof, steam heating, electric lighting, bank fixtures, marble and tile work. Plans in progress.

Warehouse, Chester, Pa. Architects, Puckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Stevenson Company, 1500 West Fourth street, Chester, Pa. Brick, 1 story, 95x180 feet, slag roof. Architects taking revised bids due October 26th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Stacy Reeves & Sons, 2011 Market street; Smith-Hardican Company, 1606 Cherry street, all of Philadelphia; Nolan Bros., 524 Market street; V. Mercadante, 224 West Second street; Amos P. Sheaff, 302 East Fifth street, all of Chester, Pa.

Residence and Store (alt. and add.), Lancaster, Pa. \$15,000. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Frederick Engle & Bro., Lancaster, Pa. Slag roof, steam heating, electric lighting, tile work, metal ceilings. Owner is sub-letting all contracts.

Store Front, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Frederick Engle, Lancaster, Pa. White enameled brick and terra cotta, 2 stories, 32 feet wide. Owner is sub-letting all contracts.

Residence, New Holland, Pa. \$6,000. Architect, J. B. Harman, 56 North Duke street, Lancaster, Pa. Owner, D. E. Overly, New Holland, Pa. Brick, 2 stories, 30x34 feet, slate roof, hot water heating, gas and electric lighting. Owner is sub-letting all contracts.

Church (alt. and add.), East Mauch Chunk, Pa. Architects, Watson & Huckel, 1209 Walnut street, Philadelphia. Owners, St. John the Evangelist Church, East Mauch Chunk, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Architect taking bids due October 21st. The following are figuring: Ed. Peters, Allentown, Pa.; Lewis Riebe, Lansford, Pa.; H. Herman, Mauch Chunk, Pa.; A. Breslin, Summit Hill, Pa.; Frank Colgan, 2205 North Broad street, Philadelphia.

Armory, Allentown, Pa. \$40,000. Archi-

tecs, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner, State Armory Board, Harrisburg, Pa. Brick, stone and steel, 1 story, 68x94 feet, slate and slag roof, steam heating, electric lighting, metal lath. Owners have received bids.

Church Tower, Lebanon, Pa. \$5,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Lebanon Reformed Church, Lebanon, Pa. Concrete and terra cotta, 20x20x118 feet. Plans in progress.

Home Buildings, Laurelton, Pa. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, State of Pennsylvania, Harrisburg, Pa. Brick and stone, 1 and 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Residence, Drexel Hill, Pa. Architect, H. B. Peterson, 34 South Seventeenth street, Philadelphia. Owner, T. H. Barnhill, 1224 North Fifty-ninth street, Philadelphia. Stone and frame, 2½ stories, 40x60 feet, slate and canvas roof, vapor vacuum heating, electric lighting, oak floors. Revised plans in progress. Bids in about ten days.

Residence, Penfield, Pa. Architect, Robt. G. Ward, 6316 Reedland street, Philadelphia. Owner, Joshua Cookenback, 2309 Fitzwater street, Philadelphia. Stone and frame, 2½ stories, 27x33 feet, wing 11x15 feet, shingle roof, steam heating, electric lighting, oak floors. Architect taking bids, also sub-bids. Stacy Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

Sub Station, Lansford, Pa. Architect, Schofield Eng. Co., Commercial Trust Building, Philadelphia. Owners, Panther Valley Light, Heat & Power Company, Lansford, Pa. Brick, 1 story, 40x43 feet, slag roof. Architects taking bids due October 26th. W. H. Lindsay Company, Harrison Building, Philadelphia, is figuring.

Residence (46), Chester, Pa. Architect, private tplans. Owners, Chester Realty Company, 815 Land Title Building, Philadelphia. Brick, 2 stories, 20x32 feet and 17x31 feet, slag and slate roof, hot air and hot water heating, electric light, oak floors. Owners taking sub-bids.

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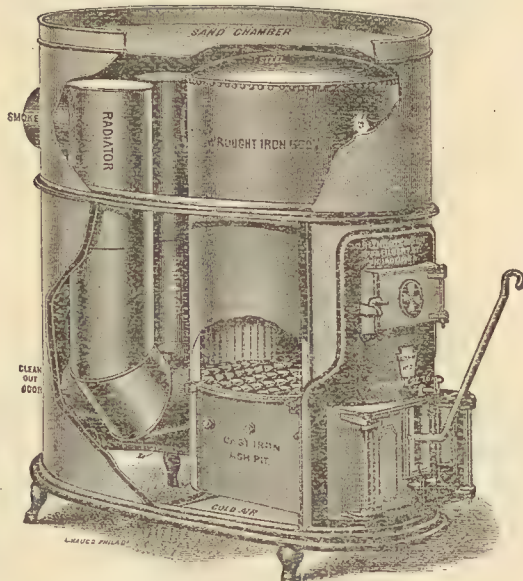
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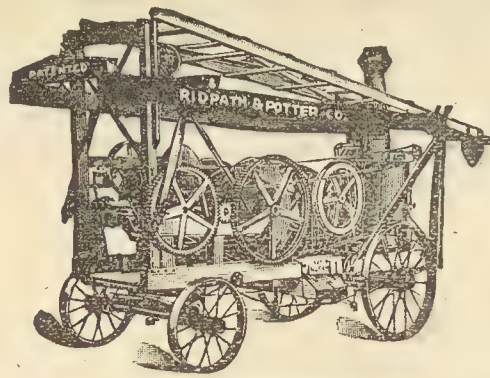
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PENNSYLVANIA

Contracts Awarded

Nurses' Home, Allentown, Pa. \$60,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, Allentown Hospital Association, Allentown, Pa. Brick, stone trimmings, 3½ stories, 45x190 feet, slate and slag roof, electric lighting, metal lath, hardwood floors, tile work (heating, reserved). Contract awarded to Ochs Construction Co., Allentown, Pa.

Residence, Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Brick, 3 stories, 18x33 feet, slate roof, hot air heating, gas and electric lighting. Contract awarded to Wm. Shaffer, Reading, Pa.

Residence, Elkins Park, Pa. \$7,000. Architect, W. A. Foster, Columbus, Ohio. Owner, T. E. Karlson, Chestnut avenue, Oak Lane, Philadelphia. Stone and frame, 2½ stories, 30x40 feet, shingle roof, hot water heating, electric lighting. Contract awarded to W. John Stevens, Wyncote, Pa.

Hog House, Oreland, Pa. \$5,500. Architects, Steward & Page, 320 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Oreland, Pa. Concrete and frame, 1 story, 28x76 feet, asbestos shingle roof, cement floors. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

NEW JERSEY

Construction News

High School, Woodstown, N. J. Architect, Albert W. Dilks, 1001 Chestnut street, Philadelphia. Owner, Board of Education, Woodstown, N. J. Brick, stone trimmings, 2 stories, 190x72 feet, green slate roof, electric lighting (heating, not decided). Plans in progress. Bids will not be taken for some time.

Post Office, Morristown, N. J. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick, marble trimmings, 2 stories, fireproof, tile roof, steam heating, electric lighting. Owners taking bids, due December 5th at 3 P. M.

Post Office (alt. and add.), Trenton, N. J. Architect, private plans. Owners, U. S. Government, care of E. F. Hoopes, Custodian, Trenton, N. J. Stone and brick, 3 stories, copper roof, electric lighting, metal lath, hydraulic lift. Owners have received bids.

Club House, Beach Haven, N. J. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Little Egg Harbor Yacht Club, Beach Haven, N. J. Frame, 1 story, 60x80 feet, shingle roof, electric lighting, maple floors (heating, reserved). Plans in progress.

Hotel (add.), Spring Lake, N. J. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owner, New Monmouth Hotel, Spring Lake, N. J. Brick, 5 stories, slate roof. Consists of fifth story addition (heat-

ing and lighting, reserved). Architects have received revised bids.

Apartment House, Atlantic City, N. J. \$10,000. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Thomas Kilcourse, 17 North Sovereign avenue, Atlantic City, N. J. Brick, 3 stories, 97x32 feet, slag roof, gas and electric lighting, metal lath. Plans in progress. Architect will take bids in one week.

Bungalows (18), Ventnor, N. J. \$36,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City, N. J. Owner, Jules Cohen, 4705 Atlantic avenue, Atlantic City, N. J. Brick, frame and stucco, 1½ stories, 36x42 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Store and Apartments, Atlantic City, N. J. \$12,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City, N. J. Owner, Hayday Estate, Atlantic City, N. J. Brick, 3 stories, 18x80 feet, slate roof, hot water heating, gas and electric lighting, tile work, waterproofing and dampproofing. Architect has received bids and will soon award contract.

Employees' Cottages (2), Morris Plains, N. J. \$20,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey Insane Asylum, O. M. Vaughn, Warden, Morris Plains, N. J. Frame and stucco, 2 stories, 31x153 feet each, slag and

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tile roof, steam heating, electric lighting, metal lath, composition floors. Owners taking bids due October 21st. The following are figuring: James H. Wells, Heed Building; Thos. C. Trafford, 1613 Sansom street; Berry-Goodwin Company, Drexel Building; Metzger & Fisher, Denckla Building; Herman Voigt, 1251 North Twenty-eighth street, all of Philadelphia; Wm. Schwartzwalder, 13 East Sixteenth street, New York City; J. J. Lyons, W. A. Richman, Geo. A. Mills Wood Working Company, all of Moorestown, N. J.; John Hoffman, Mendham, N. J.; Langan Construction Company, Jersey City, N. J.; M. Byrnes Building Company, Elizabeth, N. J.; Wm. I. Houghton, Somerville, N. J., and McMiller Construction Company, 738 Broad street; E. H. Harrison & Bros., 478 Broad street, both of Newark, N. J.

Post Office, Haddon Heights, N. J. \$25,000. Architects, Pouckert & Wunder, 310 Chestnut street, Philadelphia. Owners, name withheld.

Brick, 2 stories, 95x36 feet, slag roof, steam heating, electric lighting. Plans in progress. Architects will take bids in one month.

School (add.), Beverly, N. J. \$25,000. Architect, H. A. Brown, Beverly, N. J. Owner, Board of Education, Clarence Hazzard, secretary, Beverly, N. J. Brick, 2 stories, 60x50 feet, tin roof, electric lighting, slate blackboards (heating, separate bids). Owner is ready for bids.

Post Office (alt. and add.), Trenton, N. J. \$9,660. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner U. S. Government, care of Custodian, E. Furman Hoopes, Post Office, Trenton, N. J. Stone and brick, 3 stories, copper roof, electric lighting, metal lath, hydraulic lift. S. W. Mather & Sons, American Mechanics Building, Trenton, N. J., submitted the lowest bid, at \$9660, and will probably receive the contract.

New Jersey

Contracts Awarded

Administration Building (alts.), Vineland, N. J. \$4,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Corrections, Trenton, N. J. Consists of interior alterations, electric lighting, slag roof, laundry machinery. Contract awarded to James H. Wells, Heed Building, Philadelphia.

Cow Barn, Glen Gardner, N. J. \$12,000. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Correction, Trenton, N. J. Stone and frame, 2 stories, slate roof, electric lighting, concrete and wood floors, metal lath. Contract awarded to Langan Engineering & Construction Co., 75 Montgomery street, Jersey City, N. J.

Residence, Trenton, N. J. \$10,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, R. E. Kolb, 407 West State street, Trenton, N. J. Brick and stucco, 2½ stories, 30x65 feet, tile roof, gas and electric lighting, hardwood floors, tile work (heating, reserved). Contracts awarded—Carpenter work to E. D. La Rue, 53 South Hermitage street, Trenton, N. J.; Mason work to Scott & Day, 232 South Olden street, Trenton, N. J.

Bottling House and Stable, Burlington, N. J. \$5,000. Architect, H. A. Brown, Beverly, N. J. Owner, F. J. Cutter, Burlington, N. J. Brick, 1 story, 40x60 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to J. E. Kolster, Beverly, N. J.

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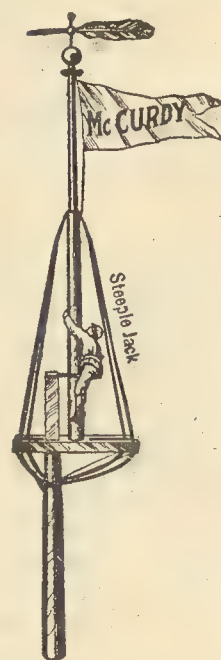
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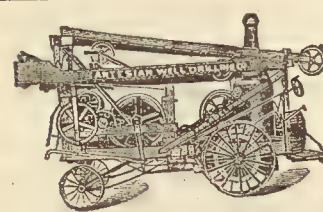
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MARYLAND Construction News

Residences (5), Winchester street between Dukeland and Oakhurst, Baltimore, Md. \$13,000. Architect, W. Raymond Russell, 330 North Charles street, Baltimore. Owner, Philip S. Morgan, 12 East Lexington street, Baltimore. Brick, 2 stories, 14x48 feet each, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residences (6), 1700 to 1716 Bentlow street, Baltimore. \$14,000. Architect, private plans. Owner, F. E. Tobe, 2768 West North avenue, Baltimore, Md. Brick, 2 stories, 14x52 feet each, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residence, Garrison avenue near Carlisle street, Baltimore, Md. \$5,000. Architect, F. E. Tobe, 2768 West North avenue, Baltimore. Owner, Mary E. Tobe, 2403 West North avenue, Baltimore. Frame 1½ stories, 20x20 feet, slate roof, steam heating, gas and electric lighting. Owner will sub-let all contracts.

Club House, Ocean City, Md. \$5,000. Architect, F. E. Beall, 305 St. Paul street, Baltimore, Md. Owner, Ocean City Country Club, Ocean City, Md. Frame, 2 stories, shingle roof, steam heating, electric lighting. Plans in progress.

Store Building (alt. and add.), 742 North Gay street, Baltimore, Md. Architect, H. G. Jory, Munsey Building, Baltimore. Owners, Goldenberg Bros., 20 Clay street, Baltimore. Brick, 3 stories, steam heating, electric lighting, metal lath. Plans in progress.

Residence, Belair Road and Maple avenue, Baltimore. \$4,500. Architect, private plans. Owner, A. Cylotta, 411 West Franklin street, Baltimore. Brick, 2 stories, tin roof, hot water heating, electric lighting, tile work. Owner taking bids. Charles L. Stockhausen, National Marine Bank Building, Baltimore, is figuring.

Store and Stable, 1050 Granby street, Bal-

timore, Md. Architect, Geo. R. Callis, Knickerbocker Building, Baltimore. Owner, Joseph D. Stark, care of architect. Brick, 2 stories, slag roof, steam heating, electric lighting. Architect taking bids due October 26th. The following are figuring: George Bunnecke & Son, 306 St. Paul street; Ideal Construction Company, Law Building; R. Siegel, 35 North Eden street; M. Amun, Pratt and Caroline streets, all of Baltimore, Md.

Residence, Ten Hills, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, W. R. and J. B. McCreary, 1713 West Lombard street, Baltimore. Frame, 2½ stories, slate roof, steam heating, gas and electric lighting. Architect taking bids due October 23rd. The following are figuring: Cowan Building Company, 106 West Madison street; J. Henry Smith, 1426 Light street; C. W. Brown, 15 East Fayette street, all of Baltimore, Md.

Residence, Annapolis, Md. Architect, C. Bayard Turnbull, 328 North Charles street, Baltimore. Owner, Clinton G. Morgan, Annapolis, Md. Frame, 2½ stories, 34x40 feet, shingle roof, steam heating, electric lighting. Architect taking bids due October 22nd. The following are figuring: W. E. Baum, 15 East Fayette street; R. B. Mason, 308 West Madison street; R. E. Chambers, Thirty-sixth and Poland avenue, all of Baltimore, Md., and Philip Herieux, Elmer Parkinson, of Annapolis, Md.

Residence, McDonogh, Baltimore County, Md. \$15,000. Architects, Emory & Nussear, 330 North Charles street, Baltimore. Owner, McDonogh School, McDonogh, Baltimore County, Md. Brick, 2½ stories, slate roof, steam heating, gas and electric lighting, tile work. Architects taking approximate bids. Edward Brady & Son, Cathedral and Howard streets, and Cowan Building Company, 106 West Madison street, Baltimore, Md., are figuring.

Residence, Orkney avenue, Baltimore, Md. Architect, private plans. Owner, Wm. R. Nelson, 1322 Aisquith street, Baltimore. Frame, 2½ stories, slate roof, steam heating, electric lighting, tile work. Contract awarded to H. A. Knott, 1340 North Eden street, Baltimore, Md.

Store and Residence, 625 South Charles street, Baltimore. \$7,000. Architect, John Freund, 11 East Lexington street. Owners, H. Krieger Sons, 1 East Lee street, Baltimore, Md. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to J. Cohen, 16 South Charles street, Baltimore, Md.

Residence, Bellona avenue, Baltimore, Md. Architect, private plans. Owner, J. T. Norris, York Road and Bellona avenue, Baltimore. Frame 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to H. A. Knott, 1340 North Eden street, Baltimore, Md.

Warehouse, Linden avenue and Preston street, Baltimore. \$10,000. Architect, S. Russell, 2900 Clifton avenue, Baltimore. Owner,

Oriental Rug Company, 1101 Cathedral street, Baltimore, Md. Brick, 3 stories, 25x88 feet, slag roof, steam heating, electric lighting, wood floors, metal lath. Contract awarded to Henry Momberger, 34 West Chase street, Baltimore.

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Miscellaneous Construction News

Dormitories (2), Ithaca, N. Y. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owner, Cornell University, care of E. L. Williams, Ithaca, N. Y. Stone and brick, fireproof, 3 stories, 50x15 7 feet, 60x135 feet, slate and tile roof, steam heating, electric lighting, asphalt floors, metal lath, waterproofing, metal sash and frames, safety treads. Owner taking bids due October 28th. The following are figuring: Jacoby Myers & Sons Company, Witherspoon Building; R. C. Ballinger & Company, 218 North Thirteenth street, both of Philadelphia; P. J. Carlin Construction Company, 1123 Broadway; The Whitney Company, 1 Liberty street; Geo. A. Fuller Company, 111 Broadway; Theodore Starrett Company, all of New York City; H. Wales Lines Company, Meriden, Conn.; Norcross Brothers, Worcester, Mass.; F. W. Mark Construction Company, Leader-News Building, Cleveland, Ohio; Driscoll Bros. & Company, 134 South Aurora street, Ithaca, N. Y.; Matthews Construction Company, Princeton, N. J.; Jones, Beers Company, 16 Eldredge street, Binghamton, N. Y. Lathrop, Shea & Henwood Company, Scranton, Pa.; J. Henry Miller, Baltimore, Md., and F. T. Ley & Company, Springfield, Mass.

Armory, Belair, Md. \$30,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owner, Maryland State Armory Board, Major M. A. Rekord, Belair, Md. Brick, stone and steel, 2 stories, 65x145 feet, slate and slag roof, electric lighting, metal lath, waterproofing and dampproofing (heating, separate bids). Owners taking revised bids. The following are figuring: W. A. Richman, Moorestown, N. J.; Berry-Goodwin Company, Drexel Building, Philadelphia; F. J. Whalen, Clayton, R. F. D., Belair, Md.; J. L. Robinson Construction Company, Knickerbocker Building, Baltimore, Md.; C. C. Smith, Havre De Grace, Md.

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

W. J. Moore (O), Ogontz, Pa. G. B. Clopp (C), 3207 Spring Garden street. Cost, \$2,500. Garage, Fortieth and Ludlow streets.

St. Matthews Reformed Church (O), Fifth and Venango streets. T. C. Trafford (C), 1613 Sansom street. Cost, \$5,000. Church, Fifth and Venango streets.

Philadelphia & Reading Railway Company (O), Twelfth and Market streets. F. W. Van Loon (C), Denckla Building. Cost, \$5,000. Station, Twelfth and Market streets.

Speedwell Motor Company (O), 1335 Frankford avenue. D. H. Sharp Company (C), Heel Building. Cost, \$3,500. Garage, 1335 Frankford avenue.

E. E. Keihl (O), Thirteenth and Cheltenham avenue. E. B. McCall (C), Sixty-fifth and Park avenue. Cost, \$1,000. Garage, Thirteenth and Cheltenham avenue.

G. C. Allen (O), 6387 Overbrook avenue. W. W. Warren (C), 1336 McKean street. Cost, \$1,200. Garage, 6387 Overbrook avenue.

Premier Brewing Company (O), Poplar and Orianna streets. A. Donaldson, Jr. (C), 2237 Oakford street. Cost, \$2,000. Shed, Poplar and Orianna streets.

Henry Tonge (O), Tacony. F. W. Van Loon (C), Denckla Building. Cost, \$1,300. Garage, Tacony, Philadelphia.

J. J. Hurley (O), 503 Monastery avenue. Cost, \$4,000. Two dwellings, brick, 2 stories, 16x30 feet.

Michael Stevens (O), 912 Fanshaw street. Cost, \$2,400. One dwelling, brick 2 stories, 16x40 feet, 8022 Germantown avenue.

H. B. Copperman (O), 618 South Sixth street. Gelman & Chofkin (C), 936 Wolf street. Cost, 4,000. Store and dwelling, 3 stories, 15x45 feet. Cost, \$3,500. Store and dwelling, Sixth and Kater streets.

Carmelite Convent (O), Sixty-sixth and Old York Road. Melody & Keating (C), Baily Building. Cost, \$49,000. Convent, brick, 2 stories, 42x62 feet, Sixty-sixth and Old York Road.

Burkholder & Robinson (O), 5918 North Ninth street. Cost, \$2,700. One dwelling, brick, 2 stories, 24x30 feet, 5924 Warnock street.

James W. Mitchell (O), Forty-sixth and Market streets. Cost, \$12,000. Apartment house, 3 stories, 39x71 feet. Cost, \$10,500. Apartment house. Cost, \$6,000. One store and dwellings, Forty-sixth and Market street.

Chas. J. Heckler (O), Croskey and Indiana avenue. Cost, \$24,000. Twelve dwellings, brick, 2 stories, 16x38 feet. Cost, \$8,000. Four dwellings. Cost \$14,000. Seven dwellings, McFerren and Park avenue.

Jas. Smith (O), 1607 South Twenty-second street. H. D. Prettyman (C), 2603 South Broad street. Cost, \$8,000. Drug store, 3 stories, 20x36 feet, Sixtieth and Walnut streets.

Wendell & Smith (O), Overbrook, Pa. M. W. Young (C), Overbrook. Cost, \$10,000. Drug store, 3 stories, 32x38 feet, 6350 Woodbine avenue.

Jacob Ridgway (O), Broad and Lehigh avenue. J. Richard Jackson (C), Perry Building. Cost, \$20,000. Theatre, brick, 1 story, 70x114 feet, Front and Allegheny avenue.

M. H. Taylor (O), 773 North Forty-fifth street. J. F. Trent (C), 1830 Montgomery avenue. Cost, \$3,600. Two dwellings, brick, 2 stories, 18x28 feet, 796 Rex street.

Fox & Kaufman (O), 1806 South Sixth street. C. H. Finklestein (C), 515 Jackson street. Cost, \$2,500. Store and dwelling, brick, 2 stories, 17x54 feet, Twenty-ninth and Wharton streets. Cost, \$10,000. Store and dwelling, Twenty-ninth and Wharton streets.

James Stewart (O), Roxborough. Cost, \$5,000. Two dwellings, brick, 2 stories, 16x44 feet, Manyunk.

C. A. Schuler (O), 1342 Wagner avenue. Cost, \$3,000. Store and dwelling, brick, 2 stories, 15x35 feet, Eighth and Lyeoming streets. Cost, \$34,500. Fifteen dwellings.

J. A. Bonner (O), Bustleton Pike. M. E. Rodgers (C), 7732 Cottage street. Cost, \$4,200. Two dwellings, brick, 2 stories, 16x36 feet, 529 Solly avenue.

J. M. Holms (O), 2949 North Twenty-fourth street. Cost, \$35,000. Fourteen dwellings, brick, 2 stories, 16x45 feet, Penn and Chew streets.

D. McKibb (O), 2900 Frankford avenue. Cost, \$10,500. Seven dwellings, brick, 2 stories, 15x55 feet, Memphis and Ann streets. Cost, \$10,000. Seven dwellings.

W. H. Ambrose (O), Leverington and Umbria streets. Cost, \$2,500. Dwelling, brick, 2 stories, 16x40 feet, 208 Hermitage street. Cost, \$2,500. Dwelling.

S. Bogosofsky (O), 1621 South Sixth street. N. Litman (C), 2332 South Tenth street. Cost, \$4,500. Store and dwelling, brick, 3 stories, 18x25 feet, 505 South Fifth street.

T. E. Edwards (O), Bridgeton, N. J. Henwood (C), 1509 Wood street. Cost, \$1,750. Store and dwelling, 2226 North Broad street.

Philadelphia Rubber Company (O), Thirty-seventh and Reed streets. Stuckert & Sloan (C), Crozer Building. Cost, \$15,000. Warehouse, Thirty-seventh and Reed streets.

W. Fleming (O), 5207 Haverford avenue. P. H. Clemen (C), Wm. Penn, Montgomery Co., Pa. Cost, \$3,100. Store and dwelling, 5207 Haverford avenue.

Stanley Company (O), Juniper and Market streets. Bader & Company (C), Wilmington, Del. Cost, \$1,200. Theatre, Fifty-ninth and Market streets.

Sedgwick Farms Company (O), 7014 Boyer street. A.S. Tourison (C), 7014 Boyer street. Cost, \$1,000. Garage, Clearview and Sedgwick streets.

Dr. C. W. Bartine (O), Hansbury & Pulaski avenue. F. Elvidge & Sons (C), 5522 Germantown avenue. Cost, \$1,500. Dwelling, Hansbury and Pulaski avenue.

City of Philadelphia (O), iCty Hall. Geo. B. Clopp (C), 3207 Spring Garden street. Cost, \$5,400. Hospital, Thirty-fourth and Spruce streets.

Misses Cope (O), Washington Lane. H. H. Burrell (C), 1204 Chancellor street. Cost, \$5,000. Dwelling.

Wm. Friehofer (O), Twentieth and Indiana avenue. P. Harbach Cont. Company (C), 2530 West Thompson street. Cost, \$1,600. Theatre, 5917 Market street.

S. Hadler (O), 438 North Second street. B. Cutler (C), 618 North Second street. Cost, \$2,500. Store and dwelling, 438 North Second street.

Harry Webb (O), Fifth and Allegheny avenue. H. Brocklehurst (C), 512 West Norris street. Cost, \$5,100. Garage, Fifth and Allegheny avenue.

M. L. Jacobs (O), 942 South Forty-ninth street. M. W. Young (C), Overbrook. Cost, \$10,000. Apartment House, 942 South Forty-ninth street.

Specialty Eng. Co. (O), Emerald and Westmoreland streets. Cost, \$7,500. Shop, Emerald and Westmoreland streets.

F. J. Stokes (O), Seventeenth and Cambria streets. Cost, \$2,500. Machine shop, Seventeenth and Cambria streets.

Barrett Manufacturing Company (O), Margaret and Bermuda streets. Cost, \$5,000. Tank, Margaret and Bermuda streets.

Pennsylvania Sngar Company (O), 1037 North Delaware avenue. Guernsey-O'Mera Company (C), North American Building. Cost, \$3,000. Manufacturing, 1037 North Delaware avenue.

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Alterations and Additions

Mrs. K. Parker (O), 1306 North Sixty-first street. B. H. Boorse (C), 665 North Fifteenth street. Cost, \$2,000. Shop, 3644 North Hutchinson street.

Harold Goodwin (O), 3927 Locust street. Warren Biscoe (C), 3954 Ludlow street. Cost, \$2,500. Dwelling, 3927 Locust street.

J. L. Wiza (O), Wilmot and Belgrade streets. Cost, \$2,000. Building, Wilmot and Belgrade streets.

G. W. B. Fletcher (O), West End Trust Building. J. N. Gill Company (C), Heed Building. Cost, \$12,000. Store and office building, Germantown and Cheltenham avenues.

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PROTECTING RESIDENTIAL DISTRICTS

Methods Employed in Various Cities Where Efforts Have Been Made to Confine Industrial Concerns Within Prescribed Zones

(From paper at the Sixth National Conference on City Planning at Toronto.)

Does the constitutional right to life, liberty and the pursuit of happiness include those important considerations which our English cousins in their recent town planning legislation refer to as the "amenities"?

It is only in very recent years that we have been conscious of the necessity of doing something to protect our citizens in the enjoyment of the right to lead a quiet, contented, rational existence and bring up their families free from the noise, discomfort and nerve-racking atmosphere which generally surrounds our industries.

During the last few years in a few of our larger cities we have awakened to the folly of this disorderly and thoughtless method of living and are beginning to ask ourselves whether these discomforts of living are really necessary after all.

Property Restrictions.

From the earliest days even in America those of us who have not been especially enamoured of noise and of a hurly burly life, have sought so far as mere man could, acting alone and without the powerful support of government, to control his own neighborhood and protect the home and where he expected to bring up a family and live for the rest of his life. And so we find for many years in America an effort through private covenant or what is popularly known as "property restrictions" to secure the result desired.

Unfortunately this method which has been followed to a greater or less degree throughout all parts of the country has not proved entirely satisfactory, being a private arrangement between individuals, and being only a mutual agreement or contract, it has proved to be easily dissolvable. Furthermore, in many of our States the courts have held that property restrictions imposed some years back by the then owners of property are no longer binding and of effect when the neighborhood conditions have changed and when the succeeding property owners have desired to dissolve the terms of such agreement.

Private covenant having proved ineffective, the use of the police power of the State has finally been sought. How far the police power will stretch in America is still a question to be decided. That the police power cannot be stretched to cover merely aesthetic considerations is clear from the decisions of our courts.

As yet no one has sought to define the meaning of that important term "general welfare." It is a most important one for those interested in progress. I take it to be the American equivalent of our English city planners' "amenity."

What Has Been Done.

Such efforts as have been made in the United States to extend the use of the police power in this direction have all been within the past few years, the earliest attempt having been made in the State of California five years ago. Here in 1909 the first effort to establish residential districts and to exclude therefrom certain industries was made in the city of Los Angeles.

In the year following a similar attempt was made in Michigan, in the city of Grand Rapids, and more recently, viz., in 1913, there seems to have been an epidemic of regulation of this kind, the States of New York, Wisconsin, Minnesota and Illinois having all passed legislation of this nature.

So far as I can ascertain, all these various attempts were made in an unrelated way by each State, without knowledge of what the other was doing; in fact, in most cases I believe without knowledge of what California had done four years previous.

California Leads.

The Los Angeles ordinance differs in many respects from the districting plans of other cities in that it lays the greater emphasis upon the establishment of industrial districts, whereas the schemes embodied in the laws of other States concern themselves with residential districts. The difference, however, after all, is chiefly a question of emphasis.

The entire city of Los Angeles, with the exception of two suburbs, is divided into industrial and residential districts. In addition to the industrial districts there are what are termed "resident exceptions;" in other words, small spots where certain unobjectionable industries are permitted.

The industrial districts vary greatly in shape and size. The largest has an area of several square miles and measures five miles in length and two miles in width. The smallest district comprises a single lot. As a whole the industrial districts are grouped in one part of the city. The "residence exceptions" are small, with the exception of one which is about a half mile in area. None of them covers a greater area than two city blocks, and in many cases each does not occupy more than one or two lots.

The line that is drawn between the industrial district and the residential district in the Los Angeles scheme is that all kinds of business and manufacturing are permitted without restriction in the industrial districts, while in the residential districts certain specified businesses of a distinctly objectionable nature are prohibited. Those industries

which are not enumerated in the prohibition are permitted.

Manufacturing Forbidden.

In the residential districts all manufacturing but that of the lightest kind is forbidden, but less offensive business and manufacturing establishments which are excluded from the residential districts may be carried on in the "residence exceptions," which seem to be a sort of "twilight zone" between the two extremes.

A distinctive feature of the Los Angeles scheme is that certain industries, even if already established in the residential district before the district is created, are to be excluded; that is, it becomes unlawful to maintain these industries even though they may have been in operation for many years before the district was created.

In Michigan in 1910 the Common Council of Grand Rapids, without any specific authority from the Legislature, passed an ordinance establishing residence districts, and subsequently this ordinance was amended by creating additional residence zones. The validity of the ordinance was attacked in the courts, and the Superior Court of Grand Rapids held that the ordinance was unconstitutional and void, among other reasons on the ground that "such ordinance constitutes a taking away of the property of relator without due process of law, in violation of the provisions of the Fourteenth Amendment of the Constitution of the United States."

The Legislature of Wisconsin in 1913 passed an act authorizing cities of 25,000 or more to set aside exclusive residential districts. The act thus affects the cities of Milwaukee, Green Bay, La Crosse, Madison, Oshkosh, Racine, Sheboygan and Superior.

At about the same time that the State of Wisconsin was acting, the State of Minnesota was taking similar action. The Legislature of that State in 1913 passed an act empowering cities with a population in excess of 50,000 to establish exclusive residential and industrial districts. Acting under authority of this law the City Council of Minneapolis on February 28, 1913, passed an ordinance establishing certain residential districts. So far as we can ascertain, the validity of this ordinance has not as yet been tested.

The State of Illinois in the same year also passed an act empowering cities to establish residential districts and exclude therefrom certain other classes of buildings, but this was vetoed by the Governor upon an opinion from the Attorney-General that such an act would be unconstitutional.

New York State Acts.

At the same time the Empire State of New York was taking similar action. In the Housing Law for Second Class Cities will be found a similar plan for the establishment of residential districts. In that act a plan is provided for the establishment of "residence districts" and the erection of any building other than a private dwelling or two-family dwelling in such districts is prohibited. The

residence district may be made as small as one side of a city block.

Acting under authority of this law the cities of Syracuse and Utica have passed ordinances establishing such residential districts.

New York City has also taken similar action within the last two months, the Legislature of 1914 having passed an enabling act authorizing the Board of Estimate to divide the city into districts and to regulate the use of buildings in each district on a different basis. A commission is to be appointed by the local authorities of New York City to determine the boundaries of districts and to work out the details of this plan.

What, it may be asked, are the important considerations to be borne in mind in seeking to utilize the police power to regulate the character of neighborhoods and to protect citizens in the enjoyment of residential districts free from the invasion of objectionable industries or occupations, and how can we so formulate our enactments that they will be subject to adverse decision by our courts?

It will be seen from a study of the different enactments that have been described that they differ in many respects and in some essential particulars.

In the first place, should we limit the industries or uses which we exclude from a residential district to certain specified ones that may be enumerated in the statute, or shall we prohibit all industries in our residential district and forbid there any use other than for purposes of residence?

In the California law we find that only those industries are excluded that are enumerated, and presumably only those are enumerated which the authors of the law believe can be shown clearly to be objectionable from the point of view of public health, safety, morals or welfare. In the Minneapolis ordinance and in the Milwaukee ordinance the same principle is followed and specific industries are enumerated.

It has become an axiom, however, in legislative experience that specific enumerations are extremely dangerous, for the very simple reason that the legislator is apt to forget many points which should be enumerated and may possibly include in the enumeration things which are subject to attack.

In the New York Second Class Cities Law everything but private dwellings and two-family dwellings and private garages or stables at the rear of the lot are excluded. In this act no attempt is made to enumerate objectionable industries or objectionable uses of property in residential districts, but all uses other than for purposes of residence are by the act itself excluded.

The Multiple-Dwelling.

An important feature of this scheme which should not be lost sight of is carried out in the New York law, namely, the exclusion from strictly private residence districts of huge multiple-dwellings, such as tenement houses and apartment houses and hotels.

None of the statutes which have been cited, neither the ordinances of California nor the laws of Wisconsin or Minnesota, will be of

any value in the effort to keep apartment houses, tenements and hotels out of private residence districts, as the laws of these States simply give to the local authorities in the cities affected the right to differentiate residential and industrial districts. The multiple-dwelling, either apartment house, tenement house or hotel, is, of course, a residential use of property and such a building could not therefore be excluded.

There are cities such as New York and some of the older Eastern cities where the multiple-dwelling is the chief type of house that we can expect to find at the present day in the future development of the city. Here, therefore, it will be necessary to distinguish between the prohibition of multiple-dwellings and the prohibition of industries.

The next question which confronts us is, shall our statutes be retroactive? Shall we reach back into the past and disturb industries or uses of property which have been maintained for many years? In other words, shall we after a given date, no matter what the conditions, exclude from a newly created residential district all industries or objectionable uses to which property may be put?

A Limited Prohibition.

This has been the method employed in California. It is also the method employed in the Milwaukee and Minneapolis ordinances, but it should be noted that these ordinances in excluding certain industries from residential districts are limited solely to those industries which can be shown to be objectionable from the point of view of public health, morals or the general welfare.

The New York law does not go so far. It does not seek to affect anything but the future. It accepts the principle that where a district has already gone and industries are well established that it is futile to attempt to save it for residential purposes.

A third consideration is, how far the residents and property owners of the district affected by the restriction shall determine whether such restriction shall apply. Here there are two elements of danger.

If the law permits the decision to rest solely with a majority of the property owners affected there is likelihood of its being set aside by the courts on the ground that one group of property owners cannot deprive another group of property owners of the right to use their property in such way as they may wish.

On the other hand, we must be on our guard not to place the determination of this question solely in the local legislative body or permit it to act without giving the property owners whose interests are affected an opportunity to express their views and have some voice in the determination of the question at issue.

It is apparent, therefore, that both of these elements must be considered. The restriction to be valid must either originate with or have the affirmative approval of a substantial majority of the parties in interest whose property is affected. It must also have the approval of the government, that is, of the local legislative body.

Another important consideration from the practical point of view, if not so essential from the side of the legality of our plan, is that the plan shall be a workable one and that the geographical boundaries of the district affected shall be such as to give a scheme that will not unduly stop the progress of a city nor interfere with the development of business where business development is necessary and desirable.

For American practice the best unit seems to the writer to be one side of a city block. Anything larger than this is bound to cause trouble. It will not do to make the entire city block the unit of our residential district, because it is well recognized that we have in many cities conditions where one side of a block located on some broad avenue is best adapted for business purposes; in fact the only development that could be appropriately and profitably made at a given time on such a location is of that nature, whereas the other three sides of the block may be located on distinctively residence streets, and the most appropriate use for them is a residential one.

With the unit thus limited to one side of a block, it is possible to give to each part of a city the special treatment that it needs—business in one case, residence in another.

Another important consideration from the point of view of workability is that the plan shall be flexible so that the industrial progress of the city may not be checked. It ought to be possible, therefore, to have the restrictions that are imposed removed or removable by as simple a process as the one by which they are imposed.

EARLY ENGLISH HOMES.

English common people for centuries made their homes in wooden huts of one room, says "Building Age." When a family increased in number or wealth, another hut was built to it, or rather a leanto was added, and another and another as needs required. Sometimes they followed a straight line, other times they were built out from the central hut at various angles. The roofs of these huts were thatched. In the center was left an opening for the fumes and smoke of the fire to escape. The fire was always built in a hollow in the center of the room.

Beds were of straw, often a shake down in a corner. Occasionally the straw was held in a frame like the ribs of a ship.

Houses built by Saxon knights were much more pretentious. They were big halls, like the Roman triumph, with a lofty roof thatched with slate or wood shingles. The floor was hard clay. In the middle was a great fire of dry wood. The thin, acrid smoke from the fire escaped through an opening in the roof directly above the hearth.

Around the fire were long benches on which hearthsmen and visitors sat when not fighting or at work, and talked and drank the hours through. The tables were long boards on trestles. At night, like the less prosperous folks, the floor was strewn with straw and host and visitors slept together.

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Irving Dillon.....Editor

PHILADELPHIA, PA., OCTOBER 21, 1914.

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Editorial Comment

Mr. C. Matlack Price in an article in the current number of "Arts and Decoration" indicates with unusual clarity the distinction between a servile copying of accepted design and the adaptation of this design to present-day conditions. Referring to some recent work of Harris T. Lindeberg, of the former firm of Albro and Lindeberg, work notable for a certain grace in the matter of country house interiors. Mr. Price observes:

"It is an obvious human fact that if one part of a man's work is distinctly conspicuous, and another part is more subdued, or more reserved, or less seen, it is for the first part that he is most known. A notable painter, with a large following of admirers, may find that only a small and intimate cult either knows or appreciates him as an etcher. This simile, however, although it serves to bring out the point, is not entirely applicable to the case in hand, because the interiors designed by Mr. Lindeberg are a definite part of his work as well as a very interesting part. It is simply that they are not known so well as his work in the design of exteriors, which is partly because they are not so often seen or illustrated as the exteriors, and partly because, even when seen, they are not nearly so conspicuous.

It is not at all difficult to recognize a house resigned by Mr. Lindeberg, because in the course of the years in which he has been practicing he has developed a distinct style. It is one which is dependent rather upon a high order of architectural integrity than upon any 'tricks' or mannerism—his work bears a certain stamp of well-bred reserve in its conception, and indicates, even to an untrained eye, a high degree of polished surety in its execution.

One of the most important generalities to be kept in mind in considering the work of Mr. Lindeberg, to-day as well as during his association with Mr. Albro, is the fact that he has never allowed himself to become the slave of any architectural 'style' or 'period.' He has borrowed skilfully and frankly from the great storehouse of precedent, but for the most part he has borrowed inspiration and not form. The student must find hard work to trace any palpable "derivations" in Mr. Lindeberg's work, for with whatever elements may have been derived, there is an all pervasive quality of architectural imagination and originality and freshness and sanity.

* * *

Believing that the expression of domesticity should for the prime factor of country house design, Mr. Lindeberg has built his own peculiarly pleasant and engaging architectural style on a foundation as logical as it happens to be unusual. He has placed this idea first, and in rendering architectural terms, has succeeded in doing so in a manner which is forceful without being over-emphatic of any personal bias or preference in style. It is

not that Mr. Lindeberg does not understand 'style,' but rather that he understands it so well, and that he is so capable of disregarding it, that he knows its limitations in expression. Broadly speaking, Mr. Lindeberg's architecture differs most conspicuously from that of the greater number of his contemporaries, in that he has made the use of architectural precedents a means of expression and not an end.

It is a very important truth in connection with Mr. Lindeberg's peculiar handling of interiors, that the living room is a room to be lived in, the dining room, a room in which to dine, and the bed-rooms eminently rooms in which to sleep. To commend the architect for this may seem a little in the nature of commendation for a thing which might reasonably and rightly be expected of him, yet this ote of perfect appropriateness and of quiet distinction is so rarely seen that perforce one feels called upon to acclaim it.

* * *

There are certain elements to be reckoned with, architecturally, in the creation of interiors—elements quite independent of the actual furniture, the character of which the architect must usually leave, with dubious hopefulness, to the good taste or the already acquired chattels of his client.

To understand the qualities underlying the success of the interiors under consideration here, then we must understand as nearly as possible what the architect has done to make them what they are.

In the first place, they are pleasantly indefinite in the matter of 'style' as such, while they are very definite in the pleasant impression which they give. They are not so intensely 'Colonial' that one is like to feel uncomfortable without a powdered wig and knee-breeches.

It is true that many of them express most of the best that is to be derived from so-called Colonial architecture, properly called Georgian Colonial, but there is so much of Mr. Lindeberg's own art of adaptation in them that they are very personal."

* * *

What is here stated of the work of Mr. Lindeberg is equally true of the work of dozens of other designers of the first class, men like Frank Miles Day, Wilson Eyre, D. Knickerbocker Boyd, Visscher Boyd, Charles Barton Keen, Stewardson and Page, Mellor and Meigs, Brockie and Hastings, Duhring, Okie and Ziegler, De Armond, Ashmead and Bickley, Horace Wells Sellers, Edmund B. Gilchrist, Bissell, Sinkler and Tilden and men of the same general calibre. Let the medium or the period be what it may, there is always present that note of distinction familiar to the work of the master craftsman—the note of restraint, taste, selective genius, differentiating the final effect achieved by the skilled designer from the over-elaboration of the novice and the mere decorator. This is as

true of interiors as of exteriors—as true of the treatment of the grounds and surroundings as of the general scheme of design. The quality involved is as difficult to phrase as a passage of music that stirs unsuspected depths of feeling. It is there, nevertheless, and the fact that it is there is what causes us to say of a house, or of a room, that it has that indefinable quality we call charm.

* * *

Charm isn't a quality in itself so much as a combination of qualities. It has its root in a certain harmony, symmetry, responsiveness to order and sequence. Its inspiring motif is restraint. Its method a process of artistic elimination. As the chef remarked of his favorite salad, "It isn't so much what you put in as what you leave out." The man who has this gift of divination is the true artist. The man who has not may achieve worldly success—he will never gain a place among the inner elect. He is lacking in what, for want of a better name, we are pleased to refer to as "the divine afflatus." Quite a lengthy train of thought to be provoked by a few random chapters on some recent interiors, but in this era of wars and rumors of wars it is really a relief now and then to escape into even a desultory discussion of something unrelated to the art of—killing.

* * *

And, speaking of war,—we weren't speaking of it, were we?—well, referring to it, then, an article in the October "Craftsman" presents certain suggestive ideas touching the part played in it by poor little Belgium.

Mr. Frank Jewett Mather, the most important art critic in America, writes that "in the city of Louvain alone have been destroyed more beautiful works of art than the Prussian nation has produced in its entire history. "Not since the Teuton, Robert Guiscard, at the end of the dark ages, sacked Rome," Mr. Mather tells us, "has there been so great a sacrifice of the permanent beauty of the world by barbarians."

"Although many of the smaller cities in this land of beauty have been sacrificed by the passing army, the deluge of devastation seems to have poured over Louvain—the most famous, the most beautiful, the most valuable city in the entire nation, if not for its size, in the whole world.

St. Pierre, the Louvain cathedral, containing greater treasures than any other of like proportion, has been ruined. Only the towers are left of this magnificent Gothic building which was flanked by beautiful chapels holding reliquaries of the saints and life-sized carved wooden figures. The Gothic stone and wood carving in the interior of St. Pierre ranked as among the finest in Europe. In addition to this, paintings by Van Papenhoven, Roger van der Weyden, and Dierick Bouts were destroyed. The latest news is that not only is St. Pierre in ruins, but that four beautiful churches of the fourteenth and fifteenth centuries have also been obliterated—St. Jacques, St. Quentin, St. Michael and St. Gertrude.

* * *

The Louvain cathedral was erected in

fourteen hundred and forty-eight by Matheiu de Layens. Fortunately for the joy of the world, Louvain's famous Hotel de Ville, also erected by Mathieu de Layens in the fifteenth century, has not been destroyed. It has been injured and many of the wonderful stained glass windows have been broken, but the building itself, the greatest monument of Industrial Gothic known, remains for the pride of the Belgians, as well as for the lovers of art the world over. There were many famous town halls built in the fifteenth and sixteenth centuries during the days of the supremacy of the Guilds in Belgium, but none so perfect as Louvain's Flemish Gothic structure.

Unlike many of the very splendid ecclesiastical buildings in France and Germany, the inside of Belgium's churches were as beautifully finished as the exterior. It was rare indeed in Belgium, and especially in Louvain, to find the empty desolate church interiors that are so generally seen in the heart of Europe, where religion has so often been associated with sadness, and where the spirit of the woe of the people seems to have filled the long aisles and the shadowy corners of the magnificent buildings.

As the immediate sense of horror over the disaster of Louvain sinks back into history and one looks out upon the destruction of this great and beautiful city, more and more one is filled with astonishment. It is not as though the Germans had come fresh from disaster at the hands of the Belgians, as though Germany had suffered destruction from Louvain, as though Teutonic women and children had been hurt, prompting revenge upon this old and great beauty. It all seems, even in cold retrospect, utterly ruthless, an act of vandalism, performed for the sake of joy in destruction.

* * *

But a few months ago, we read of Belgium as 'the garden of the world, her fields fertile and well-tilled, her roads beautifully paved from north to south, the gentle home of art and science, her money given freely to preserve her halls for painting, her universities dating back to the twelfth century holding wisdom not only for Belgium, but for France, Germany, Russia, America; her gardens, the loveliest in the world, her children trained to be farmers, gardeners, scientists, poets, painters. To-day her halls of learning are in ashes, her cathedrals filled with soldiers, long lines of her homes burnt or destroyed by bombs; her green fields and fertile plains have been trampled into dust, her flowers are crimson with the blood of her own people.'

England says 'we will not make peace until Belgium is recompensed to the last dollar.' But how can we pay her for her sacrifice, for her lost people, for her ruined greatness? What medal is there splendid enough for her heroism, what song great enough for her mothers and widows? Her youth has been put to the sword, her beauty lighted by the torch. We may to-day, when we speak of Belgium, lift our heads, our hearts; indeed, for all time we shall recognize her as the

most splendid, the most unselfish of all people; but how can we quench her tears, how can we stop her wounds

* * *

The most peaceful of all European people, Belgium has been from the beginning of her history, back in the ninth and tenth centuries, a battleground for distracted nations. She has passed through successive periods of culture as well as war since Julius Caesar established a permanent camp there during his campaign against the Belgians and Germans. In the eleventh century, Louvain became the residence of the long line of Dukes of Brabant, and was the capital of the Duchy of Brabant, until Brussels wrested this distinction from her during an uprising of weavers against their feudal masters. In the fourteenth century, Louvain became a tremendous center, with a population of nearly one hundred and fifty thousand and with two thousand four hundred woolen manufactories. But the weavers were a turbulent lot, and when they rose against the Duke of Wenceslaus, he conquered, and thousands of the workers fled to Holland and England. And Louvain, with the triumph of her capital over labor, began to lose prestige, and the center of the woolen-making industry was shifted to more peaceful countries.

* * *

It was shortly after this that scholars began to pour into the lovely old town where they could glean from the parchments and the books which the Louvain castle contained facts of great interest. It was John, the fourth Duke of Brabant, who founded for these scholars the Louvain University, to which students from all over the world flocked in the sixteenth century. This university had become one of the most famous in Europe, fostering four thousand students and forty-three minor colleges. To-day the old building is in ashes, not a single arch remains.

So dearly did the people of Louvain love their town, their university, their cathedral, so valiantly had they worked in the past to



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sustain these works of art in their midst, that when the sound of cannonading from the German artillery was heard on the outskirts of the town, when the people realized that there was no hope for them, that the Germans must pass through and sack their city, in the midst of all the sadness, the sorrow, the terror, these gentle people of peaceful ways stopped to write out notices and to put them on the doors of their homes, on the gates of the university, on the entrances to the beautiful churches, begging the Germans not to burn their town, to take what they must, but not to destroy Louvain. This is, in a way, one of the most touching acts of sacrifice of all the many which these wonderful Belgians have to their credit during the heartrending weeks and months of torture they have been living through. There was no plea for any person, although the town should have been immune from the attack of the Germans—an unfortified town, a town without defenses, a town to which refugees had fled; but the one thought in the face of absolute personal disaster was for the city, to spare the city for the world wherever beauty lovers should be for all time. And the answer to the appeal was not only the murder of the helpless citizens, but the destruction of churches, university and homes.

* * *

But little is left at Louvain to-day but the shining spirit of the greatness of the destroyed people, a thing to remember as long as history gives space to splendid spiritual achievement."

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

THE SKILL REQUIRED OF AN ARCHITECT

Results of Carelessly Drawn Plans and the Liability of the Architect for Negligence in Connection With Them

The skill required of an architect in the preparation of plans and specifications, and his liability for negligence in drawing them, constituted the subject of a recent decision of the Iowa Supreme Court which is reported in full at page 277, 145 "Northwestern Reporter." Plaintiffs, a firm of architects, sued to recover the amount of compensation which defendant agreed to pay them for preparing plans and specifications for a business block embracing storerooms and a theater. Defendant counterclaimed for damages declared to have been sustained by him on the ground that the plans and specifications were defective in that, as claimed, the plans for the theater were so defective that occupants of boxes could not view the stage, that trusses over the stage were so placed that valuable curtains were cut off, that an arch was so unskillfully planned as to bulge the sustaining walls, that no proper means of ingress and egress for certain rooms were provided, that ventilation for the storerooms was not provided for adequately, and that details were so defectively prepared that pillars under the balcony of the theater had to be cut off and the balcony lowered.

On trial of the case, plaintiffs recovered the full amount claimed by them, under an order given the jury by the Judge to find for plaintiffs. But, on defendant's appeal to the Supreme Court, the judgment was reversed and the case sent back for a new trial on the ground that defendant had made out a strong enough case to go to the jury on his counterclaim.

What the Court Said.

The Supreme Court said, in part: "As practising architects, plaintiffs were bound to furnish plans and specifications prepared with a reasonable degree of technical skill, and such as would produce, if followed and adhered to, a building of the kind called for, without marked defects in character, strength or appearance." The court finds that the evidence offered on the trial by defendant to sustain his counterclaim was not wholly satisfactory, but that it was sufficiently strong to go to the jury.

The measure of an owner's damages which he can recover against an architect on establishing that the latter has been negligent in the preparation of plans and specifications, is thus referred to by the Supreme Court: "It may well be doubted whether the record calls for a statement by us of the true measure of damages in such case, but it would seem to be the rule of reason, as we think it is the rule of law, that where the defect complained of is of such character that it may be corrected without unreasonable or disproportionate expense, such expense will properly measure the damage so sustained; but if the defect be so

intimately connected with the body of the structure, or so inheres in some permanent part of such structure that it cannot be remedied at reasonable expense or without tearing it down or rebuilding it, or some material part of it, then the rule suggested by the trial court would be applicable." That rule is that the damages are to be measured by the difference between the value of the building as it is in its defective condition and its value as it would have been if built upon correct plans and specifications.

Degree of Care Required.

The Kentucky Court of Appeals, having been called upon to determine the degree of care required of architects in preparing plans for buildings and in superintending construction, recently decided in the case of Kortz vs. Kimberlin, 15 Southwestern Reporter 654, that there is no duty to prepare perfect plans, exercise of a reasonable degree of skill in their preparation being sufficient; and that an architect is not liable for a defect in construction, if he has used ordinary care to see that the work is done properly.

In this case Mr. Kimberlin brought suit for compensation for drawing plans for a dwelling house and for superintending its construction, and judgment having been awarded in his favor, defendant owners appealed from a disallowance of their counterclaim for damages declared to have been sustained by them through defective performance of the service. In affirming the judgment, the Court of Appeals said:

Architects Are Presumed to Possess Necessary Skill.

"While it is true that a public profession of an art is a representation or undertaking to all the world that the professor possesses the requisite ability and skill, and it therefore follows that an architect is presumed to possess the skill and ability necessary to the practice of his profession, and is liable for defective plans, * * * yet he does not undertake that his plans will be absolutely perfect, and is liable only for a failure to exercise reasonable skill in the preparation of the plans. Furthermore, if he be employed to superintend the building, he is not liable at all hazards for every defect in its construction, but is only required to use reasonable care and diligence in seeing that the work is properly done. The mere fact, therefore, that some of the material is defective, or that some of the construction work is not done in a workmanlike manner, is not sufficient to establish as a matter of law that he has not fully performed his contract. Under such circumstances, the question whether or not he used reasonable care and diligence in

superintending the work is a question for the jury. * * * Take, for instance, the stucco work, which is one of the largest items of damage claimed. The defendants testify that they, who had been occupying the house, could not discover its defective condition until after the time the amended answer was filed. It had only recently begun to peel off. While it is doubtless true that an architect has better means of observation and detec-

tion, yet it cannot be said that the evidence conclusively shows that plaintiff, by the exercise of reasonable care and diligence, could have discovered the defective condition of the stucco before it began to fall off. Notwithstanding the proof as to its condition, it was for the jury to say, under all the circumstances, whether or not plaintiff failed to exercise reasonable care and diligence."—A. L. H. Street, in "Building Age."

tion of illumination should be given very careful consideration when the house is designed.

The upper hall in this house is spacious and particularly interesting. It is lighted by means of a large window placed half way up the staircase, while in a little niche in the wall, George Washington stands guard. A modern lighting fixture would have spoiled the entire hall, but the one selected, a copy of an old Colonial oil lamp, is a striking example of how modern lighting equipment may fit into the general ensemble. The lamp with its chimney, and even the brackets at the end of the hall, were made from moulds which are exact reproductions of rare old Colonial craftsmanship and are finished, as were the originals, in antisue brass.

The bed rooms are generously equipped with floor receptacles for table lamps, dresser lights and bedside brackets, which are indispensable. It is safe to say that anybody who has had a bracket or table lamp beside his bed, considers this a necessity rather than a luxury. Instead of the ordinary brass, the bed room fixtures were in a sand-blasted finish of a dull gray. This harmonizes beautifully with bed room wall papers and color schemes.

Bath room lighting, which is so generally neglected, was given careful attention. The nickel brackets either side of the mirror were placed at the proper height so that it is possible for a man to shave with comfort. To the left of the mirror is placed a nickel wall receptacle where an electric water heater or other electrical equipment can be attached conveniently.

That portion of the house which is generally given the least attention in the lighting is the service, but in this house it was given the thought which it deserves. In the kitchen, butler's pantry, storerooms, refrigerator room, laundry, etc., were installed plain fixtures in a rich brown finish having a copper solution as a base. This finish is not affected by steam or atmospheric conditions. The kitchen is unique in that it is very well lighted. There is a pendant over the stove so that the oven register can be easily read, there is a unit in the center of the room for general illumination, and, in addition, there is a bracket over the sink. This bracket has a metal reflector so that the light is not lost, but thrown down where it is needed, and by using a metal reflector, the constant annoyance of replacing glass shades broken by maids is eliminated. This shade and socket are hung on a little clevis so that if the shade is hit it will swing, protecting the lamp and fixture from injury.

The lighting fixtures in this house are not modern in spirit, but are in keeping with the restraint exercised throughout the house. They reflect the good taste of the occupants. Lighting or equipment which is conspicuous is in extremely poor taste, yet one can hardly pick up a magazine devoted to home decoration without finding at least one illustration of a room which is well handled with the exception of the lighting. Before it is possible to have well lighted homes, the decorator, whether the professional or the home owner,

CONGRUITY IN LIGHTING FIXTURES

The lighting in a home should first of all be given consideration from the standpoint of efficiency, that is to say, the illumination must be sufficient to meet the daily demands, and as conditions in every home vary, as there is no standard of light, what is sufficient for one is not for another, the lighting should be flexible so that the quantity of illumination can be modified as desired.

Bearing in mind that the lighting must be practical, a house should be treated as a unit and the lighting considered as a factor of the general scheme and made to so fit in with the architecture that it become a part of it.

The lighting in a remodeled country house in New Jersey was recently handled in this manner and the results obtained clearly demonstrate that modern lighting is no longer a question of inability to obtain design, but one of knowing where to secure, and how to use, the materials already on the market.

This home is interesting because it has an exceptional location on the crest of a fan elevation in a setting of grand old shade trees, with ground gradually sloping toward a small lake on the north side. The old house was enlarged, designed and carried out in a simple type of the New England Colonial period.

The entire outside is of white stucco with the wire lath put over the clapboards of the old part of the house. Many houses, when they are rebuilt, are unsatisfactory, but this house is attractive and efficient, and these two points really cover all the essentials in happy residence architecture. The roof is covered with shingles, stained in moss green, and appears to belong to the surrounding trees. The entrance is a copy of an old Salem doorway and the quaint copper lantern selected reminds one of the old Salem witchcraft days.

In modern houses, there seems to be a demand for large bed room space on the second floor, and this is taken care of in this house by building the second floor over the large piazza and outdoor living room, which runs the entire length of the house.

This outdoor living room is lighted by means of four ceiling units, composed of a wide copper band (and it is always wise to use copper or bronze, which improve with age for outdoor work), supporting a flat piece of opalescent glassware. This glassware is far superior to the cheap, roughened crystal glass, which is commonly employed for this purpose, and the diffusion of light is such

that one can read or sew here with comfort, making it a living room by night as well as by day. This is quite unusual in outdoor living rooms and is an innovation which might well be followed.

The interior is carried out in the same simple style as the exterior and has white paint trim and mahogany doors with glass knobs, demanding simplicity in the lighting equipment.

The entrance hall has an atmosphere of dignified hospitality increased by the grandfather clock which is two hundred years old, and I am assured that it keeps better time than any other clock in the house. The lighting is obtained by means of brackets which, in design, are in keeping with the dignity of the hall, and the Colonial lamp chimneys which they bear are of a new alabaster glass and give illumination which is effective without any glare.

The dining room, directly opposite the entrance, is lighted by means of an alabaster bowl supported by a unique chain hanger of silver, while on the walls are silver brackets bearing candelabra lamps. The alabaster bowl is high above the table, permitting the use of flowers or candlesticks without creating the effect of running the table decorations into the lighting equipment. The use of lighting bowls of this type seems singularly appropriate in a dining room, harmonizing as they do with the dishes on the table, while the silver hanger and brackets reflect the tone of the silver on the serving tables. Although the lighting arrangement in this room is very simple and in keeping with the surroundings, it has attracted a great deal of attention because the general illumination is so even and pleasant.

The comfortable and spacious living room is lighted by means of brackets in dull gold, rather similar in design to those used in the hall, bearing the same Colonial chimney shade, supplemented by several table lamps, so located that it is possible to obtain general illumination from the wall brackets or localized effects, if preferred, from the various table lamps. In a living room which is used for so many purposes, there should always be more than one method of illumination or the results will prove unsatisfactory. It costs very little to install floor-plugs and wall receptacles while the house is in the course of construction, but it is expensive after the house has been completed, so that the ques-

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must give the subject of lighting serious thought. The day is not far distant when ugly lighting will be of the past.—Berniece Bowser, in "The House Beautiful."

THE GENUS ARCHITECT.

Some day an architect will write his confessions. Then the lay man will be able to grasp what manner of man it is who can find a point in space and say with certainty that yonued, where only birds circle and dip, shall men walk; who can dissolve a chaos of stone and steel, of timber and cement, into an habitation; who can reduce visions to paper and yet know that those visions will become reality. For it must be conceded that the architect is the lone son of the arts whose feet are firmly rooted on earth—yes, as firmly as are the foundations he uays. With the nonchalance of an acrobat it would seem that he juggles in one hand such mundane matters as stress and strain and waterproofing and grillage, while with the other he is crystalizing dreams into skylines and fashioning unbelievable cities. Were it not for these seeming contradictions, the genus architect could readily be understood.

The architectural profession, says a writer in an authoritative journal, is composed of four rather distinct types of practitioners: the experienced, ethical man; the novice of proper education and training, lacking only experience; the "architect," and the syster. And the contributor goes on to lament—and justifiably—the public's lack of discrimination between the different types. Unfortunately, as in other professions, there are those parading as masters of the art, but whose work is only too obvious an example of the public being duped by low prices. These, if the truth were but known, are not architects at all, they are not creators, they would scarcely rank as builders, they are ghouls of other men's work. The prospective house-builder will find it wise to look up his architect and see if he is accepted in one of the better known associations. You can generally depend upon it that the shyster will be flying alone.

But here we would speak of the tried and approved architect. What is he? What does he stand for? In some circles he would seem to be consumed with the pedantry of an academician; in others, he talks like a revolutionist. Viewed as a whole and in homely simile, the architect is a chemist, analytical and synthetical, working with very tangible substances. He analyzes the past and synthesizes it into the present. At all times

he is an experimenter—or should be, for a slavish following of the academic is no less deadly than the complete disregard for it. He must draw on Greece and Rome, on France and England, for ideas; though his ultimate aim is ever to modernize the old, to adapt it to present-day needs with the aid of latter-day devices and discoveries. And such discoveries are tending not alone to the application of conveniences and inventions, but to finding the exact use for every kind of substance and applying it where it will render the best service. In his art, as in any other, only by exercising eternally the principle of selection are beauty and efficiency attained.

Were Charles Lamb or one of the other nineteenth century essayists writing on the genus architect, they undoubtedly would have considered them from two characteristic viewpoints, and faltering in such steps we would try the same: the architect in his office and the architect in his home.

That a man cannot always be judged by his clients is corroborated in another passage from the writer quoted above, "A prospective builder seeking his first experience does not, oftentimes, appear to care who makes his drawings, just so he obtains them cheaply. Having no particular respect for the building he is about to erect, he has even less respect for the architect, who appears to be a necessary evil in the affair. The architect himself, if he be of the first class, is probably not lacking in self-esteem and is far from relishing the patronizing attitude of the prospective client. He neither kotows nor cringes; and the man with money to spend is too likely to resent what he considers 'high and mightiness' in one who is only a servant after all."

Truly, it is remarkable how some folks who summon the architect for counsel fail to strike a medium of attitude toward him. Either they treat him as they would the local carpenter—demanding the impossible and, often enough, unwittingly, the inartistic; or look upon him as infallible until some misjudgment proves him human, whereupon he becomes clothed with all the weaknesses of the earth-born.

In no profession does the client seem to feel it his province to exercise such thralldom as in that of building houses; an attitude quite absurd when considered from a logical point of view. No man would dictate to his doctor, and even the lawyer cannot complain that his client arrogates unto himself the last word in counsel; yet the architect has often to tolerate and to handle with creditable diplomacy unaccountable changes of taste from his client that utterly destroy the

unity of his work. Often enough the owner who would accept unqualifiedly the plumber's dicta on plumbing will question the ultimate decision of the architect on architecture. It were time the layman learned that some of the monstrosities seen about the land are not wholly the fault of the architect. It were also time for him to learn that consulting a good architect with an idea for a house does not necessarily spell an enormous outlay for counsel fees.

When the architect comes to build his own house, he is as a bird released from his cage. No longer is he held in thrall by the wishes or dictates of a client. For years he has been saving up ideas of little treatments here and there with the promise that some day, when he is to be his own master, he will make use of them. He has seen a doorway in France and a chimney in England, from the South he has caught the idea for a stairs, and from Rome the suggestion for a window. Then out from their dusty corners are dragged the ideas. He spreads them before him. This is to be his own house, he says, and he will make it a model of perfection and efficiency. Then gradually creeps over him the realization that were all these ideas included in the one house it would gain fame for being little less than a curio shop.—"House and Garden."

ENGLISH CARVINGS.

Rich and elaborate carving had always been dear to the heart of the English craftsman, and, when the forces of Renaissance influence became supreme, that deeply ingrained love could not be uprooted, says Harold Donaldson Eberlein and Abbott McClure in "The Architectural Record." It merely received a different bent. The carver who aforetime had busied his hands fashioning graceful linenfold panel enrichments, fleur-de-lys, poppy-head finials, oak leaves and all the delicate intricacies of Gothic foliation, when the tide of fashion turned, labored just as assiduously to cover every available inch of the surface before him with designs that were presumably of classic origin, but which in the meanwhile had passed through so many media of German, French and Flemish design books that oftentimes their original form was lost and they appeared as grotesque and almost unrecognizable mongrels. Decorative foliage of even such vigorous growth as acanthus did not wholly escape injury from the frost of "barbarism." Of course, we are not surprised to find distinctively old English forms creeping into this medley now and again.

It is this enrichment of interior woodwork that we find one of the most convincing points of connection between the architecture and the furniture of the day and the close resemblance must be kept constantly in mind if we would fully comprehend our subject.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

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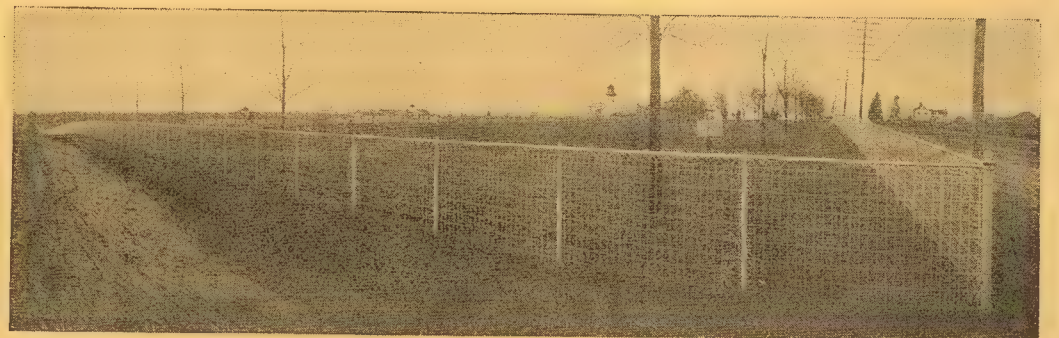
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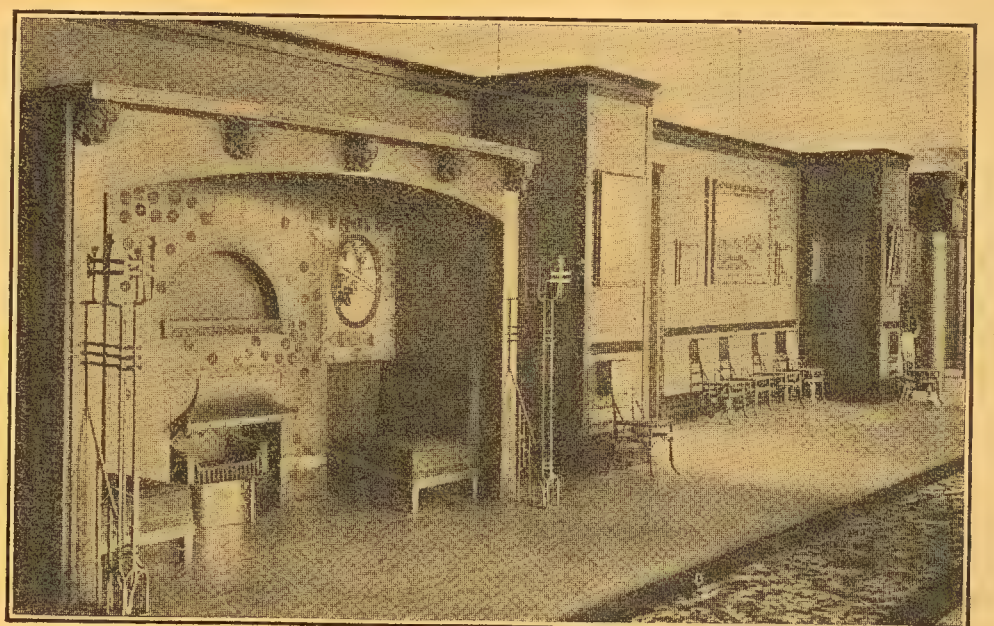
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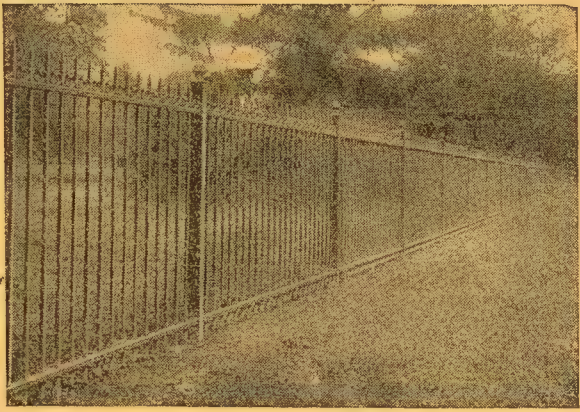
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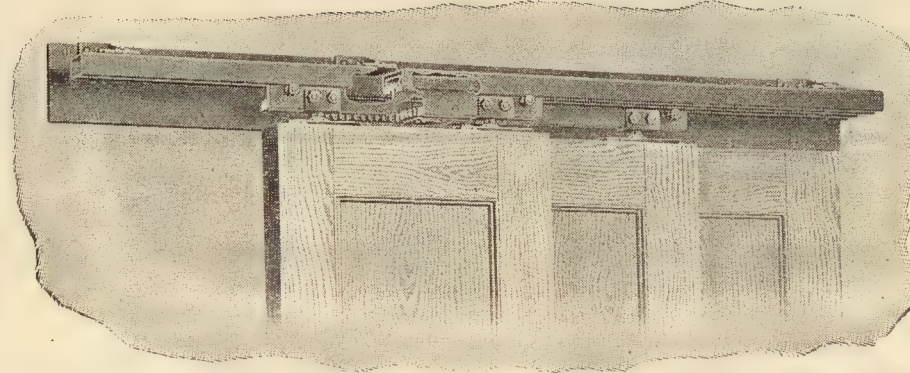
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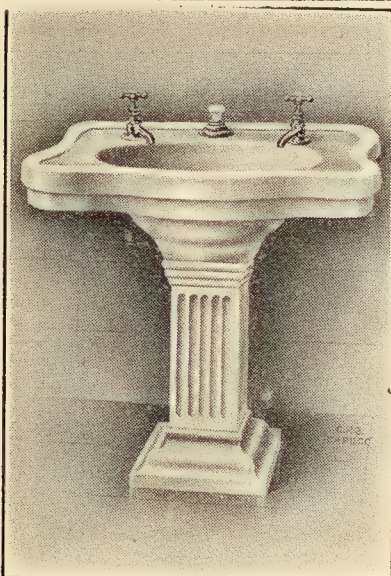


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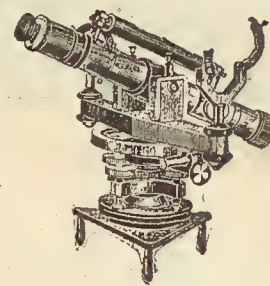
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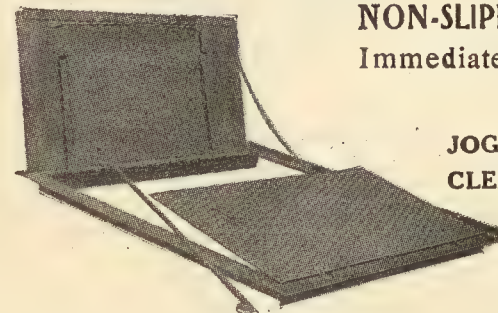
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Vol. XXIX., No. 43.

PHILADELPHIA, WEDNESDAY, OCTOBER 28, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Twentieth and Ontario streets. Architects, Durham Brothers, Heed Building. Owners, name withheld. Brick and stone trimmings, 4 stories, 31x102 feet, slag roof, vapor vacuum heating, electric lighting, hardwood floors, tile work, composition floors, elevator. Plans in progress.

Garage (add.), Gross street, near Vine \$1,000. Architects, Durham Brothers, Heed Building. Owner, Joseph Cancelmo, 6331 Vine street. Brick, 1 story, 30x25 feet, slag roof, hot water heating, electric lighting. Owner taking bids. Specht & Sperry, Heed Building, are figuring.

Residence, Fifty-fourth and Wynnefield avenue. Architect, Wesley L. Blithe, 608 Chestnut street. Owner, Harry P. Pearl, Narberth, Pa. Stone, 2½ stories, 26x63 feet, slate roof (heating, reserved), electric lighting, composition floors. Architect taking bids due October 31st. The following are figuring: J. H. Wells, Heed Building; Metzger & Fisher, Denckla Building; W. R. Dougherty, 1608 Sansom street; James Johnson, 1721 Ludlow street; C. C. Pace, Merion, Pa.; W. D. Smedley, Narberth, Pa.; T. C. Trafford, 1613 Sansom street; M. W. Young, Overbrook, Phila.

Stores (4), Fifty-second and Lancaster avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, W. K. Alcott, Eighteenth and Washington avenue. Brick, 1 story, 80x100 feet. Plans in progress.

Alterations for Apartments, 1737 Mt. Vernon street. Architect, H. L. Reinhold, 1309 Walnut street. Owners, Morris Realty Company, care of Ed. Hutchinson, 122 South Thirteenth street. Brick, 3 stories, slag roof, electric lighting (heating, separate bids). Architect taking revised bids. Wilbert Herbert, 2620 East Cumberland street; S. Bennett & Sons, Drexel Building, are figuring.

Residence and Stores (31), Oak Lane, Philadelphia. Architect, Bart Tourison, Land Title Building. Owners, Schwingle Brothers, 2637 West Haggert street, Philadelphia. Brick, 2 stories, 16x0 feet, slate and slag roof, hot water heating, electric lighting, oak floors. Plans in progress. Owners will take sub-bids.

Garage, Fifty-second and Filbert streets. Architect, J. D. Allen, 908 Chestnut street.

Owner, Wm. H. Friehofer, Twentieth and Indiana avenue. Brick, 2 stories, 69x110 feet, slag roof, steam heat, electric lighting. Architect has received bids.

Stable, Fifty-second and Merion avenue. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, W. K. Alcott & Company, Eighteenth and Washington avenue. Brick, 2 stories, 26x111 feet, slag roof, electric lighting. Plans in progress.

School (add.), Seymour and Knox streets, Germantown. Architect, J. Horace Cook, Land Title Building. Owner, Board of Education, City Hall. Stone, fireproof, 3 stories, slag roof (heat and light, reserved). Plans in progress, bids in one month.

Church, Sixtieth and Westminster avenue. Architect, Carl P. Berger, 1418 South Penn Square Building. Owners, Gethsemane Lutheran Church, Rev. J. H. Main, 1225 North Sixtieth street, Philadelphia. Stone church, 1 story, 17x60 feet, slate roof, steam heating, electric lighting. Plans about completed. Architect will soon take bids.

Residence, Broad and Bristol streets. Architect, Carl P. Berger, 1418 South Penn Square. Owner, R. G. Ledig, 1705 Allegheny avenue. Brick and stone trimmings, 3 stories, 20x50 feet, steam heating, gas and electric lighting, hardwood floors. Plans about completed. Architect will soon take bids.

Garage (alt. and add.), Frankford avenue and Somerset street. Architects, Guy King Company, 1513 Walnut street. Owner, Jacob Strecker, on premises. Brick, 2 stories, 20x32 feet, slag roof, electric lighting, hot water heating. Architects have received bids.

Store and Loft Building, Broad and Lombard streets. Architects, Lachman and Murphy, Witherspoon Building. Owner, Frederick H. Keiser, Pottstown, Pa. Brick and concrete, 78x92 feet. Details not decided. Plans about to be started, owners will take sub-bids.

Armory (alt. and add.), 4111 Mantua avenue. Architect, P. H. Johnson, Land Title Building. Owner, State Armory Board, Harrisburg, Pa. Brick, 2 stories, tin roof, hot water heating, electric lighting. Owner taking bids due October 31st. The following

are figuring: Geo. Hogg, 1634 Sansom street; J. P. Thompson, Real Estate Building; E. E. Hollenback, Fifteenth and Race streets; F. Roe Searing, Perry Building; Wm. Christy & Sons, 1610 McKean street; Stackhouse & Smith, 3826 Hamilton street; Doak & Co., Crozer Building; P. J. Hurley, 1233 Cherry street; F. J. Boas, Broad and Race streets; McCloskey-Bahls Co., Hale Building.

Residence (30), Sixty-ninth and West Chester Pike. Architect, H. E. De Hoff, 48 South Sixty-first street. Owners, Berman Brothers, 6019 Market street. Brick, 2 stories, 16x36 feet, slag roof, hot air and hot water heating, electric lighting, oak floors. Plans in progress. Owners will take sub-bids.

Factory Building, 234 Lombard street. Architect, private plans. Owner, Lifter Ice Cream Company, on premises. Brick and concrete, 3 stories, 78x141 feet, slag roof, electric lighting, cement floors, waterproofing, rolling steel doors, kalameime doors. Owner taking bids. The following are figuring: Roydhouse Arey Company, Fidelity Building; Harrison C. Rea Company, 1027 Wood street; Turner Concrete Steel Company, 1713 Sansom street, Philadelphia.

Stable (alt. and add.), Twenty-fourth and Ranstead streets. Architect, Geo. Butler, 62 West Forty-fifth street, New York City. Owners, Wells-Fargo Company, 822 Chestnut street. Brick, 2 stories, cement floors, waterproofing. Architect taking bids due October 28th. J. E. & A. L. Pennock, Land Title Building; Doyle & Company, 1519 Sansom street, Philadelphia, are figuring.

Factory Building, 234 Lombard street, Philadelphia. Architect, private plans. Owners, Lifter Ice Cream Company, on premises. Brick and concrete, 3 stories, 78x141 feet, slag roof, electric lighting, cement floors, waterproofing, rolling steel doors, kalamein doors. Owners taking bids, due October 31st. The following are figuring: James G. Doak & Co., Crozer Building; Roydhouse-Arey Co., Fidelity Building; Turner Concrete Steel Co., 1713 Sansom street; Joseph Bird Co., 213 North Eleventh street; Charles McCaul Co., 1713 Sansom street; Bailey-Irish Co., 201 North Broad street; Doyle & Co., 1519 Sansom

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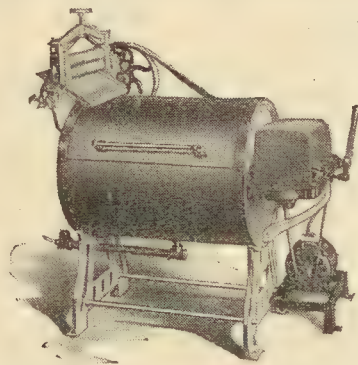
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street; Stacey Reeves & Sons, 2011 Market street; A. Raymond Raff, 1635 Thompson street; Harrison C. Rea Co., 1027 Wood street; Stuckert & Sloan, Crozer Building, and Anderson & Haupt, Drexel Building, all of Philadelphia.

Armory (alt. and add.), 4111 Mantua avenue, Philadelphia. Architect, P. H. Johnson, Land Title Building, Philadelphia. Owners, Armory of Pennsylvania, Harrisburg, Pa. Brick, 2 stories, tin roof, hot water heating, electric lighting, metal lath, composition floors. Owners taking bids, due October 31st. In addition to those previously reported, Stackhouse & Smith, 3826 Hamilton street; P. J. Hurley, 1233 Cherry street; F. J. Boas, 201 North Broad street; James G. Doak & Co., Crozer Building, and McCloskey-Bahls, Hale Building, all of Philadelphia, are figuring.

Apartment House (alt. and add.), Broad and Reed streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadel-

phia. Owner, John Burt, 1443 South Broad street, Philadelphia. Brick and stone trimmings, 4 stories, 22x40 feet, slag roof, steam heating, electric lighting, oak floors. Architect taking additional bids, due November 4th. The following are figuring: P. J. Hurley, 1233 Cherry street; F. Roe Searing, Perry Building; Specht & Sperry, Heed Building; George Hogg, 1634 Sansom street, Philadelphia.

Church (alt. and add.), Bridge and Melrose streets, Bridesburg, Philadelphia. Architects, George Nattress & Sons, Twelfth and Walnut streets, Philadelphia. Owner, St. Stephen's P. E. Church, care of Rev. W. Price, 5128 Melrose street, Bridesburg, Philadelphia. Stone, 1 story, consists of interior alteration and addition. Owners taking separate bids on electric work. Architects taking bids, due October 28th. Specht & Sperry, Heed Building, and George Hogg, 1634 Sansom street, Philadelphia, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, Chew and High streets, Germantown. \$5,700. Architect, Duhring, Okie & Zeigler, Bailey Building. Owners, Est. of F. R. Cope, care of T. P. Cope, Bailey Building. Stone and plaster, 2½ stories, 30x35 feet, shingle roof, hot air heat, electric lighting. Contract awarded to W. J. Stevens, Inc., Wynecote, Pa.

Store and Residence, 2807 Girard avenue. Architect, Sauer & Hahn, 1112 Chestnut street. Owner, Mrs. M. Oppenheimer, on premises. Brick, 3 stories, 18x75 feet, slag roof, electric lighting. Contract awarded to Frank I. Wintz, 1618 North Seventeenth street.

Boiler and Pump House, Girard College. Architect, J. T. iWndrim, Commonwealth Building. Owner, Girard College, Eighteenth and iGrard avenue. Brick and iron, 2 stories, 40x50 feet, slag roof, safety treads, water-

proofing. Contract awarded to J. S. Cornell & Sons, Land Title Building.

Warehouse (add.), Front and Snyder avenue. \$1,500. Architect, private plans. Owner, Publicker-Ward Dist. Co., Snyder avenue and Water street. Brick, 2 stories, 32x43 feet, slag roof. Contract awarded to A. Whitehead, Inc., 1624 Latimer street.

Bridge, Glenwood avenue and Reading Railway, Philadelphia. Engineer, Geo. S. Webster, City Hall, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Concrete and steel, 57 feet long. Lowest bid submitted by Richard Walsh, 5922 Tacony street—\$26,549.

Residence (alt. and add.), Sunset and Germantown avenue. \$10,000. Architect, private plans. Owner, Geo. I. Bodine, on premises. Stone, 2½ stories, 16x16 feet, tin roof, hot water heating, electric lighting. Con-

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tract awarded to F. B. Davis, 240 North Sixteenth street.

Residence, Wissahickon avenue and Johnson street. Architects, Savery, Sheetz & Savery, Stephen Girard Building. Owner, J. Morgan Lister, 5612 Germantown avenue. Stone, 2½ stories, slate roof, hot water heating, electric light. Contract awarded to Moore & Graham, 622 West Johnson street,

Germantown.

Store and Apartments (alt. and add.), 2627 Gensington avenue, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, D. Singman, 7155 Germantown avenue. Brick, 3 stories, 17x63 feet, slag roof, hot air heating, electric lighting, hardwood floors. Contract awarded to S. Pearlstein, 1614 Brown street, Philadelphia.

PENNSYLVANIA Construction News

Twin Residence, Bethlehem, Pa. \$9,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Howard E. Stout, Bethlehem, Pa. Brick, 2½ stories, 36x47 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work, waterproofing. Plans in progress.

Sunday School, Pittston, Pa. \$25,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owner, First Presbyterian Church, Pittston, Pa. Stone, 2 stories, slate roof, steam heating, electric lighting. Plans completed, owner ready for bids.

Residence, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Harry Hallman, Pottstown, Pa. Frame and plaster, 2½ stories, 25x40 feet, slate roof, hot water heating, electric lighting, oak floors. Plans in progress.

Store and Hall Building, Shenandoah, Pa. Architect, H. E. De Hoff, 48 South Sixty-first street. Owners, J. A. Mandour, Shenandoah, Pa. Brick, 3 stories, 57x60 feet, slag roof, central plant heat, electric lighting, metal lath. Architect has received bids.

Residence, Paoli, Pa. Architect, Herbert C. Wise, Franklin Building, Philadelphia. Owner, Dr. O. G. I. Lewis, Berwyn, Pa. Stone and frame, 2½ stories, 25x65 feet, shingle roof, hot water heating, electric lighting. Revised plans in progress.

Sub-Station, Lansford, Pa. Engineer, Schofield Eng. Company, Commercial Trust Building. Owner, Panther Valley Light, Heat & Power Company, Lansford, Pa. Brick, 1 story, 40x43 feet. Architect taking bids due October 28th. Chas. Gilpin, Harrison Building; F. Roe Searing, Perry Building, Philadelphia, are figuring.

Chapel, Easton, Pa. \$75,000. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owner, Lafayette College, Easton, Pa. Stone and brick, 1 story 125x130 feet, cooper roofing, waterproofing, metal lath (heating and lighting, reserved). Architects have received revised bids.

Residence (3), Llanerch, Pa. Architects, (Assoc.) Frank Seeburger & Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone and plaster, 2½ stories, 36x22 feet, slate roof, hot water heating. Architects taking bids, due October 29th. The following are figuring: J. Paul Emrey, North Wynnefield, Philadelphia; John J. Kearney, 327 North Sixty-third street; J. P. Thompson, Real Estate Trust Building; Jas. H. Wells, Heed Building, all of Philadelphia; Mowrer Brothers, Merion, Pa. of Philadelphia; Mowrer Brothers, Merion, Pa.; George Hogg, 1634 Sansom street, Phila-

Orphans' Home, Tipton, Pa. \$7,000. Architects, Stetler & Mengel, Wyomissing, Pa. Owners, Lutheran Orphans' Home, W. C. Laub, Secretary, Tipton, Pa. Brick, 1 story, 30x56 feet, wing 20x26 feet, slate roof, hot water heating, gas lighting. Architects ready for bids.

Residence, Reading, Pa. \$4,000. Architect, Geo. L. Gerhard, 519 Penn street, Reading, Pa. Owner, Percy B. Snyder, Pennside, Reading, Pa. Brick, 2½ stories, 30x30 feet, slate roof, hot air heating, electric lighting, metal weather strips. Owner is taking sub-bids.

Church, Douglasville, Pa. \$7,000. Architect, Geo. L. Gerhard, 519 Penn street, Reading, Pa. Owners, Union Sunday School Committee, J. W. Fisher, Chairman, Douglasville, Pa. Brick, 1½ stories, 30x60 feet, slate roof, gas lighting system. Owners are taking sub-bids.

Residence, Wyomissing, Pa. \$3,000. Architect, Wayne M. High, 416 Penn street, Reading, Pa. Owner, Mrs. Anna G. Day, Wyomissing, Pa. Brick, 2½ stories, 25x25 feet, slate roof, hot air heating, gas and electric lighting. Architect is taking sub-bids.

Church (alt. and add.), Hamburg, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, St. Mary's R. C. Church, Hamburg, Pa. Stone, 1 story, slate roof, hot air heat, electric light. Architect taking bids due October 26th.

Residence, Reading, Pa. \$4,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Carl F. Mayer, Reading, Pa. Brick, 2½ stories, 30x32 feet, slate roof, gas and electric lighting (heating, reserved). Architect taking bids due October 28th. The following are figuring: D. H. Hunter, Geo. E. Seyfert, Sherman & Hauck, Stanley Kever, all of Reading, Pa., and Chas. H. Schlegel, Mt. Penn, Pa.

School, Myerstown, Pa. \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Stone, 2 stories, 140x84 feet, and 20x75 feet, slag roof, electric lighting, slate blackboards. Revised plans in progress.

Stable and Garage, Villa Nova, Pa. Architects, Boyd, Able & Coneys, Fifteenth and Walnut street, Philadelphia. Owners, name withheld. Stone and terra cotta, 1½ stories, 75x120 feet, slag roof, hot water heating, electric lighting, gasoline storage. Architects taking bids due October 29th. The following are figuring: J. Myers & Sons Co., Witherspoon Building, Philadelphia; W. D. Smedley, Narberth, Pa.; J. D. Lingle, Wayne, Pa.; M. W. Young, Overbrook; J. Morris Rossiter, Wayne, Pa.

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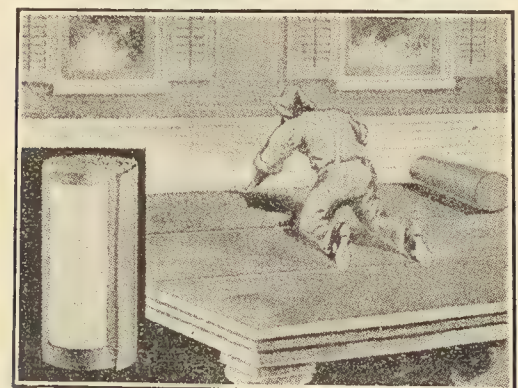
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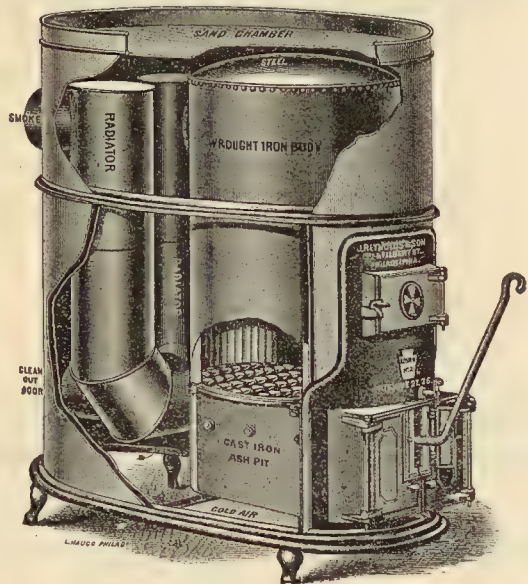
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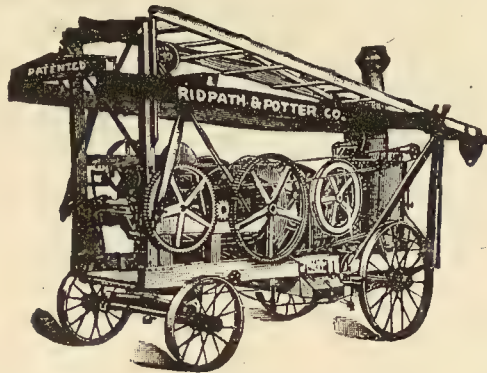
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Residence, Beechwood, Pa. Architects, Karcher & Smith, 34 South Sixteenth street, Philadelphia. Owner, Robert T. Sterrett, Fifty-first and Walnut street. Stone and frame, 2½ stories, 26x48 feet, shingle roof, hot water heating, electric lighting, oak floors, canvas roof. Architect taking bids due October 28th. The following are figuring: H. L. Brown, 1714 Sansom street; H. E. Grau Company, 1707 Sansom street; J. Sims Wilson, 1125 Brown street, all of Philadelphia; F. R. Evans, Newtown Square, Pa.

Stock House (alt. and add.), Sunbury, Pa. Architects, Koelle-Speth & Company, Twenty-sixth and Oxford streets, Philadelphia. Owners, G. & A. Moeschin, Sunbury, Pa. Brick, 3 stories, 30x46 feet, slag roof. Architect taking sub-bids.

High School, Pittsburgh, Pa. Architect, Ed. Stotz, 213 Sixth avenue, Pittsburgh, Pa. Owners, Board of Education, care of George W. Gerwig, Secretary, Fulton Building, Pittsburgh, Pa. Brick, steel and concrete, 4 stories, basement, 300x400 feet, slag roof, steam heating, electric lighting, cement floors, metal lath, waterproofing and dampproofing, metal sash and frames, enamel brick, safety treads. Owners taking bids, due November 3rd. Thos. Reilly, 1616 Thompson street, Philadelphia, is figuring.

Undertaker's Establishment (alts.), Norristown, Pa., \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, D. Y. Mowday Estate, 242 East Main street, Norristown, Pa. Brick and terra cotta, 3 stories, 55x25 feet, tin roof, steam heating, electric lighting, tile work. Plans in progress. Owner will take bids.

PENNSYLVANIA

Contracts Awarded

Residence and Garage, Corsonia, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Kurtz Fiechthorn, Reading, Pa. Stone, frame and stucco, 2½ stories, 22x35 feet, shingle roof, steam heating, electric lighting. Contract awarded to Chas. H. Schlegel, Mt. Penn; Reading.

Abattoir (add.), Reading, Pa. \$10,000. Architect, private plans. Owners Reading Abattoir Company, 216 Pine street, Reading, Pa. Brick, 3 stories, 30x110 feet, slag roof, electric lighting, concrete and wood floors. Contract awarded to Geo. E. Seyfert, Reading, Pa.

Armory, Allentown, Pa. \$47,000. Architects, McCormick & French, Second and National Building, Wilkes-Barre, Pa. Owners, State Armory Board, Harrisburg, Pa. Brick, stone and steel, 1 story, 68x94 feet, slate and slag

roof, metal lath. Contract awarded to J. L. Menough, 450 West Philadelphia street, York, Pa.

Store Building (alt. and add.), Chester, Pa. Architects, Lachman & Murphy, Witherspoon Building. Owner, Milton H. Bickley, Chester, Pa. Brick, 3 stories, copper roof, electric lighting, hardwood floors, metal lath (heating, reserved). Contract awarded to H. Louis Morris, Chester, Pa.

Residence, Villanova, Pa., \$40,000. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, Edgar B. Howard, Real Estate Trust Building, Philadelphia. Stone and plaster, 2½ stories, 35x125 feet, slate roof, hot water heating, electric lighting, oak floors. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.



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NEW JERSEY

Construction News

Residence, 448 North Thirty-sixth street, Camden, N. J. Architect, private plans. Owner, Camden Realty Company, 3400 Federal street, Camden. Frame, 2 stories, 24x38 feet, shingle roof, hot air heating. Owner is sub-letting all contracts.

Stable, 809 Chestnut street, Camden, N. J. Architect, private plans. Owners, A. Schlörer

& Sons, Eighth and Chestnut streets, Camden. Brick, 2 stories, 14x35 feet, slag roof, electric lighting. Owners are sub-letting all contracts.

High School, Flemington, N. J. Architects, John Noble Pearson & Sons, Perth Amboy, N. J. Owners, Board of Education, care of J. Higgins, Clerk, Flemington, N. J. Brick

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1927 Montgomery Avenue

Philadelphia, Pa.

and terra cotta, 2 stories, 106x120 feet, slag roof, safety tread steam heating, electric lighting, metal lath, waterproofing. Owners taking bids, due October 30th. Berry-Goodwin Co., Drexel Building, Philadelphia, is figuring.

Factory, Millville, N. J. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Caloris Company, 2110 West Allegheny avenue, Philadelphia. Brick, 1 story, 70x160 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Princeton, N. J. Architects, Janssen & Abbott, Pittsburgh, Pa. Owner, B. S. Horne, Princeton, N. J. Hollow tile and plaster, 2½ stories, 58x154 feet, slate roof (heating and lighting, reserved), hardwood and tile floors, metal lath, waterproofing and dampproofing. Architects have received revised bids.

Telephone Exchange (alt. and add.), Atlantic City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Delaware & Atlantic Telephone & Telegraph Company, Thirteenth and Arch streets, Philadelphia. Brick, 1 story, 26x27 feet, slag roof, steam heating, electric lighting. Architect has received bids.

Storehouse (etc.), Atlantic City, N. J. Architect, private plans. Owners, U. S. Government, Major E. N. Johnston, U. S. Engineer's Office, Wilmington, Del. Consists of bulkhead, storehouse and oilhouse. Owner taking bids due November 7th, at 11 A. M.

Custodial Cottage, Vineland, N. J. \$18,000. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, State of New Jersey Training School. Brick and stone trimmings, 1 and 2 stories, 60x120 feet, slate roof, steam heating, extension, gas and electric lighting, composition floors. Owner taking bids.

Store Building (alt. and add.), 538 Federal street, Camden, N. J. \$5,000. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, name withheld. Brick and stone, 1 story, gas and electric lighting, metal lath, composition floors. Architect ready for bids.

Residence (2), 44 and 46 Stewart avenue, Camden, N. J. Architect, private plans.

Owner, Clifton B. Drake, 423 Market street, Camden, N. J. Frame, 2 stories, 14x34 feet each, slag roof, hot air heating, electric lighting. Owner is sub-letting all contracts.

High School, Flemington, N. J. Architect, John Noble Pearson & Sons, Perth Amboy, N. J. Owners, Board of Education, care of J. Higgins, Clerk, Flemington, N. J. Brick and terra cotta, 2 stories, 106x120 feet, slag roof, safety treads, steam heating, electric lighting, metal lath, waterproofing. Owners taking bids, due October 30th. Berry-Goodwin Co., Drexel Building, Philadelphia; S. W. Mather & Son, American Mechanics' Building, Trenton, N. J.; Charles E. Preston, Monticello, N. Y.; Smith & Ostergood, Fords, N. J.; Ira R. Crouse, Perth Amboy, N. J.; Flynt Construction Co., Palmer, Mass.; H. J. Wenzelberger, Phillipsburg, N. J.; E. M. Waldron & Co., Newark, N. J.; Joseph Barras, Somerville, N. J., are figuring.

Residences (2), 227-229 Ellis avenue, Trenton, N. J., \$4,000. Architect, private plans. Owner, Isaiah Birks, 303 Berwyn street, Trenton, N. J. Frame and cement blocks, 2½ stories, 14x38 feet, shingle and slate roof, hot air heating, gas and electric lighting. Owner is taking sub-bids.

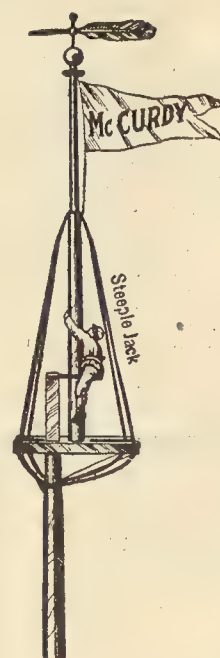
Toilet Room (add.), Kearney, N. J., \$5,000. Architect, George S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Home for Disabled Soldiers, care of James F. Connelly, Kearney, N. J. Brick and hollow tile, 1 story, 16x29 feet, asbestos shingle roof, steam heating, electric lighting, composition floors, waterproofing and dampproofing. Ready for bids.

Store Front, Trenton, N. J., \$2,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, E. F. Hooper & Co., 8 South Warren street, Trenton, N. J. Brick, 3 stories, consists of new front and interior alterations. Plans in progress.

Residence (alt. and add.), Trenton, N. J., \$2,000. Architect, private plans. Owner, George Smith, Stuyvessant avenue, Trenton, N. J. Brick, 2½ stories, 14x30 feet, slate and tin roof, gas lighting. Owner is taking sub-bids.

2 stories, 20x40 feet, slate roof, gas and electric lighting. Contract awarded to F. G. English, 1608 North Carlisle street, Philadelphia.

Employees' Cottages (2), Morris Plains, N. J. \$19,700. Architect, Geo. S. Drew, Court House, Trenton, N. J. Owner, State of New Jersey, Department of Charities and Correction, Trenton. Frame and stucco, 2 stories, 31x153 feet, each slag roof, steam heating, electric lighting, metal lath, composition floors.



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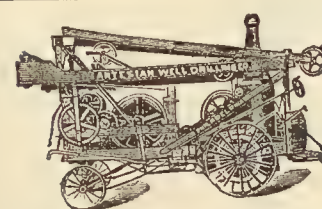
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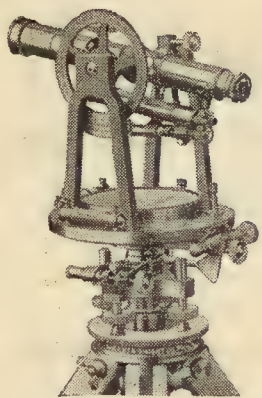
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NEW JERSEY Contracts Awarded

School, Point Pleasant, N. J. Architect, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, Board of Education of Buck Township. Frame, 1 story, 70x40 feet, shingle roof, hot air heating, slate blackboards. Contract awarded to Joseph Stillwell, West Point Pleasant, N. J.

Residence (alt. and add.), Thirty-second and Federal streets, Camden, N. J. Architect, private plans. Owner, Edward Dudley, 33 North Second street, Camden, N. J. Brick,



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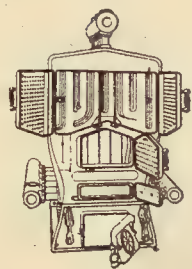
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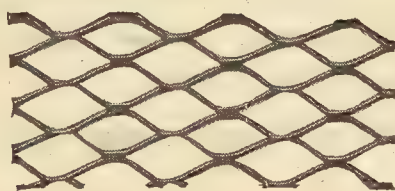
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Contract awarded for cottages, also basement dining hall, to J. J. Lyons, Morristown, N. J.

Bank (alts.), Trenton, N. J., \$30,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, Mechanics' National Bank, State and Warren streets, Trenton, N. J. Consists of remodeling interior. Contract awarded to Hoggson Bros., 7 East Forty-fourth street, New York City.

Garage, 237 East State street, Trenton, N. J., \$3,000. Architect, private plans. Owner, Charles W. Beddies, 220 East State street, Trenton, N. J. Brick, steel and terra cotta, 1 story, 45x80 feet, slag roof, electric lighting, concrete floors. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

Miscellaneous Construction News

Factory, Wilmington, Del. \$25,000. Architect, private plans. Owners, Joseph Bancroft

& Sons Co., Wilmington. Brick and concrete, 2 stories, 40x140 feet, slag roof, steam heating, electric lighting. Owners are taking sub-bids.

Residence (alt. and add.), Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington. Owner, name withheld. Brick, stone trimmings, 1 story, 20x30 feet, tin roof, steam heating, gas and electric lighting, composition flooring, metal ceilings. Architect ready for bids.

Residence, Orange City, Florida, \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, W. D. Heebner, Lansdale, Pa. Frame and stucco, 2 stories, 30x35 feet, shingle roof, electric lighting, metal lath. Plans in progress.

Miscellaneous Contracts Awarded

Hotel (alt.), Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Wesley Taylor, Fourth and Adams streets, Wilmington. Brick, stone trimmings, 3 stories, 30x70 feet, tile roof, gas and electric lighting, tile work, metal lath. Contract awarded to Chas. J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Post Office, Narragansett Pier, Mass., \$50,000. Architect, Oscar Wenderoth, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick and stone, fireproof, 2 stories, 65x72 feet, composition roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Contract awarded to Charles McCaul Company, 1713 Sansom street, Philadelphia.

MARYLAND Construction News

Theatre, Pennsylvania avenue, between Hoffman and Dolphin streets, Baltimore, Md. \$100,000. Architect, Theodore Wells Pietsch, American Building, Baltimore. Owner, Lincoln Theatre Company, care of Architect. Brick, terra cotta, steel and concrete, fireproof, 2 stories, 77x143 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath, waterproofing and dampproofing, tile and marble. Plans in progress.

Factory (add.), 1029-31 Haubert street, Baltimore, Md. \$3,000. Architect, private plans. Owner, G. Ober & Sons Company, U. S. Fidelity & Guaranty Building, Baltimore, Md. Brick, 2 stories, 24x30 feet, slag roof, electric lighting. Plans in progress.

Residence, Salisbury, Md. \$6,000. Architect, Travers L. Ruark, Salisbury, Md. Owner, architect. Frame, 2 1/2 stories, slate roof, hot water heating, electric lighting. Plans in progress.

Residence, Roland Park, Md. \$10,000. Architects, Marsh & Gette, 46 Cedar street, New York City. Owner, W. V. Coney, Roland Park, Md. Frame, 2 1/2 stories, 33x32 feet, shingle roof, steam heating, gas and electric lighting, hardwood floors, tile work. Owner taking bids. G. W. Tovell, Eutaw and Dolphin streets, Baltimore, Md., is figuring.

Residences (6), Thirty-ninth and Greenmount avenue, Baltimore, Md. \$14,000. Architect, J. C. Spedden, 1640 Hanover street, Baltimore, Md. Owner, H. Webster Cook, Law Building, Baltimore. Brick, 2 stories, 24x42 feet each, slag roof, steam heating, electric lighting. Owner will sub-let all contracts.

Bungalow, West Arlington, Md. \$10,000. Architect, Walter M. Gieske, Gunther Build-

ing, Baltimore, Md. Owner, Carl F. New, American Building, Baltimore. Frame, 1 1/2 stories, 36x38 feet, slate roof, steam heat, electric lighting, hardwood floors, tile work. Architect received bids October 27th.

Club House (alt. and add.), Park Heights avenue, near Belvidere avenue, Baltimore, Md. Architect, Joseph Evans Sperry, Calvert Building, Baltimore. Owner, Suburban Club, on premises. Frame, 1 story, electric lighting. Architect taking bids, due October 29th. G. W. Tovell, Eutaw and Dolphin streets, Baltimore, Md., is figuring.

Theatre, 1, 3 and 5 South High street, Baltimore, Md. Architect, John Freund, Jr., 11 East Lexington street, Baltimore. Owner, I. Berman, 2227 East Pratt street, Baltimore. Brick, steel and concrete, 1 story, tin roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Plans in progress.

Residence, Guilford, Md. Architects, Mottu & White, 324 North Charles street, Baltimore. Owner, Harry F. Swope, care of Alex. Brown & Sons, Baltimore, Md. Brick, 2 1/2 stories, slate roof, hot water heating, hardwood floors, tile work, electric lighting. Plans in progress.

Residence, Marley Creek, Md. \$6,000. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owner, J. F. O'Brecht, 211 South Hanover street, Baltimore. Concrete blocks, 2 stories, 26x32 feet, shingle roof, steam heating, electric lighting. Architect taking bids.

Armory, Belair, Md. Architect, J. B. Hamme, Wiest Building, York, Pa. Owner, Maryland State Armory, Major M. A.

Rickord, Belair, Md. Stone, brick and steel, 2 stories, slate and slag roof, steam heating, electric lighting, concrete floors, metal lath, dampproofing and waterproofing. Owner taking revised bids due October 29th. The following are figuring: Berry-Goodwin Company, Drexel Building, Philadelphia; J. L. Robinson Construction Company, Kinckerbocker Building, Baltimore, Md.; Henry S. Rippel, 7 Clay street, Baltimore; J. W. Richardson,

Equitable Building, Baltimore; W. A. Richman, Moorestown, N. J.; Whalen & Company, Clayton, R. F. D., Belair, Md.

Store Building (alt. and add.), 724 North Gay street, Baltimore, Md. Architect, Herbert G. Jory, Munsey Building, Baltimore, Md. Owners, Goldenberg Brothers, 20 Clay street, Baltimore, Md. Brick, 3 stories, tin roof, steam heating, electric lighting. Owners are taking sub-bids.

MARYLAND

Contracts Awarded

Garage, 721 Columbia avenue, Baltimore. Architect, private plans. Owner, Robert Moog, 721 Columbia avenue, Baltimore. Brick, 1 story, 17x37 feet, slag roof, electric lighting. Contract awarded to C. R. Fisher, care of owner.

Residence, Kate avenue, near Garrison avenue, Baltimore. \$3,500. Architect, private plans. Owner, Bernard P. Doll, 320 Augusta avenue, Baltimore. Frame, 2½ stories, 26x30 feet, slate roof, steam heating, gas and electric lighting. Contract awarded to John F. Neidhart, 119 Harford avenue, Baltimore, Md.

Residence, Liberty Heights avenue, near Granada street, Baltimore. \$6,500. Architect, private plans. Owner, Mildred Hamburger, care of builder. Brick, 2½ stories, 30x30 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to R. B.

Turner, Maryland Trust Building, Baltimore, Md.

Storage Building, Curtis Bay, Md. \$175,000. Architect, private plans. Owner, Atlantic Fertilizer Company, Stock Exchange Building, Baltimore, Md. Reinforced concrete, 1 story, 157x238 feet, slag roof, electric lighting, concrete floors, metal lath, waterproofing and dampproofing. Contract awarded to Davison Chemical Company, Garrett Building, Baltimore, Md.

Appraiser's Store (alt.), Lombard and Gay streets, Baltimore, Md. \$6,589. Architect, private plans. Owner, U. S. Government, Washington, D. C. Consists of new mechanical equipment. Contract awarded to Newport Contracting & Engineering Company, Newport News, Va.

and Walnut streets. Roydhouse-Arey Company (C), Fidelity Building. Cost, \$150,000. Hospital, brick, 3 stories, 42x98 feet, Eighteenth and Fitzwater streets.

C. S. Kates (O), Seventy-ninth and Brewster avenue. Cost, \$3,000. Two dwellings, brick, 2 stories, 16x43 feet, Seventy-ninth and Brewster avenue.

J. Morgan Lister (O), Cheltenham and German town avenues. Moore & Graham (C), 622 West Johnson street. Cost, \$8,000. Dwelling, stone, 2½ stories, 27x45 feet, Wissahickon avenue and Johnson street.

Geo. Blong (O), 7907 Lyons avenue. Cost, \$2,000. Dwelling, stone, 2 stories, 16x38 feet, 7901 Lyons avenue.

Alterations and Additions

F. D. Evans (O), Forty-third and Brown streets. Cost, \$4,000. Stable, Forty-third and Brown streets.

J. W. Orr (O), 3532 Kensington avenue. Cost, \$1,000. Store and dwelling, 2327 East Somerset street.

W. L. Blake (O), 404 High street. J. H. Walter (C), 168 East Walnut Lane. Cost, \$1,800. Garage, 404 East High street.

C. Carr (O), 6149 Columbia avenue. M. W. Young (C), Overbrook, Philadelphia. Cost, \$1,350. Garage, 6150 Lebanon avenue.

Dr. H. C. Deaver (O), 1415 North Broad street. C. F. Wills & Son (C), 124 South Thirty-sixth streets. Cost, \$1,500. Dwelling, 1425 North Watts street.

W. R. Eisenbower (O), 608 West Upsal street. McClintock & Weaver (C), 24 West Phil-Ellena street. Cost, \$2,000. Garage, 608 West Upsal street.

Horrocks Brothers (O), Frankford, Philadelphia. Cost, \$1,000. Stable, Frankford.

Enon Baptist Church (O), 230 West Coulter street. Cost, \$1,000. Church, 230 West Coulter street, Germantown.

A. Schoenhut Company (O), Adams and Sepviva streets. H. R. Heinicke, Inc. (C), Drexel Building. Cost, \$3,000. Manufacturing building, Adams and Sepviva streets.

C. E. Oelschlager (O), Harrison Building. Wm. Newell & Bros. (C), 1707 Sansom street. Cost, \$3,245. Apartment House, Thirty-ninth and Ludlow streets.

Wm. Hall (O), 416 South Twentieth street. A. Whitehead, Inc. (C), 1624 Latimer street. Cost, \$3,250. Store and dwelling, 420 South Twentieth street. Cost, \$1,200. Store and dwelling, 420 South Twentieth street.

Geo. I. Bodine Estate (O), 129 South Fourth

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Mrs. Edward McGettigan (O), 1207 Spruce street. Geo. Hogg (C), 1634 Sansom street. Cost, \$4,000. Store and dwelling, brick, 3 stories, 19x35 feet, Twelfth and Locust streets.

John Barber (O), 9546 Bustleton street. Geo. Leewright (C), 426 Seville street. Cost, \$1,900. Dwelling, stone, 2 stories, 16x30 feet, Markle and Peckin streets.

H. D. Martin (O), 4126 Haverford avenue. Cost, \$1,300. Stable, brick, 2 stories, 18x50 feet, 4054 Powelton avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 4054 Powelton avenue.

A. Graboyes (O), 1021 North Front street. J. Gorchow (C), 317 Reed street. Cost, \$6,575. Dwelling, brick, 3 stories, 21x57 feet, Eleventh and Brown streets.

Bishop Nicholson M. E. Church (O), Tenth and Rockland streets. A. R. Raff (C), 1635 Thompson street. Cost, \$25,000. Church, stone, 1 story, 54x83 feet, Tenth and Rockland streets.

J. N. McGarvey (O), Sixty-third and Columbia avenue. Cost, \$54,999. Twelve dwellings, brick, 3 stories, 16x30 feet, Sixty-third and Columbia avenue.

F. C. Michaelson (O), 211 South Forty-seventh street. Cost, \$13,500. Three stores and dwellings, brick, 3 stories, 16x30 feet, 5102-04-06 Woodland avenue. Cost, \$5,000. One dwelling.

Daniel Crawford (O), 701 North Sixty-third street. Cost, \$3,000. Store and dwelling, brick, 2 stories, 15x40 feet, Frazier and Broomall streets. Cost, \$3,000. Store and dwelling. Cost, \$16,000. Eight dwellings. Cost, \$16,000. Eight dwellings.

Rose Adler (O), 606 South Ninth street.

A. P. Lucker (C), 5146 Parkside avenue. Cost, \$1,300. Warehouse, brick, 2 stories, 22x36 feet, 606 South Ninth street.

Jos. Bauder (O), Tulip and Venango streets. C. Dear & Sons (C), 4905 York Road. Cost, \$1,000. Dwelling, brick, 2 stories, 16x30 feet, Tulip and Venango streets.

Rev. E. F. Prendegast (O), Eighteenth and Race streets. Wm. R. Dougherty (C), Sansom street. Cost, \$21,000. Rectory, brick, 3 stories, 40x50 feet, Twelfth and Spring Garden streets.

W. K. Alcott (O), Eighteenth and Washington avenue. Cost, \$4,000. Stable, brick, 2 stories, 28x111 feet, Fifty-second and Merion streets.

Margolin & Block (O), Fifth and Walnut streets. G. J. Riech (C), 1112 Loudon street. Cost, \$4,000. One dwelling, brick, 3 stories, 38x52 feet, York Road and Windrim avenue. Cost, \$4,000. One dwelling.

Jos. Preston (O), 1920 East York street. Cost, \$5,200. Four dwellings, brick, 2 stories, 14x60 feet, James and Brill streets.

Philadelphia and Reading Railway Company (O), Twelfth and Market streets. C. P. Brown (C), Nineteenth and Courtland streets. Cost, \$5,000. Stable, brick, 2 stories, 30x107 feet, Eighteenth and Callowhill street.

E. Osborne (O), 5017 Willow street. G. R. Osborne (C), 5017 Willow street. Cost, \$6,800. Two dwellings, brick, 3 stories, 16x30 feet, Saul and Wakefield streets.

Rev. E. F. Prendegast (O), Eighteenth and Race streets. John McShain (C), 631 North Seventeenth street. Cost, \$25,000. Convent, brick, 3 stories, 40x90 feet, Twelfth and Spring Garden streets.

Children's Hospital (O), Twenty-second

WOOD WORK OF QUALITY



Mill Work
Stair Work Cabinet Work
Flooring

O. M. WEBER CO., Inc.
North Wales, Pa.

street. F. B. Davis (C), 240 North Sixteenth street. Cost, \$10,000. Residence, Sunset and Germantown avenues.

Emma Battersby (O), 3448 North Broad street. J. W. Mortimer (C), 3024 E street. Cost, \$5,000. Storage, 3316 North Broad street.

G. A. Melling (O), 4223 Frankford avenue. J. G. Tottingham (C), 3367 Frankford avenue. Cost, \$1,000. Dwelling and stores, 4225 Frankford avenue.

Proposals

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As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 15, 1914,—Sealed proposals will be opened in this office at 3 P. M., December 5, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States Post Office at Morristown, N. J. Two story and basement building; fireproof throughout; brick and marble facing; tile roof; ground area, 6,825 square feet. Drawings and specifications may be obtained, after October 31, 1914, from the custodian of site at Morristown, N. J., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

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CONCRETE HOUSE CONSTRUCTION

Problems to Be Faced by Builders and Architects—Various Methods Shown and Merits and Demerits Discussed

(Excerpts from a paper read at the First Annual Convention of the American Society of Engineers, Architects and Constructors.)

Due to the increased use of concrete in industrial and business buildings remarkable developments have taken place in this branch of the industry, though until recently little advance has been made in the class of buildings of residential character. Dampness is the principal objection to concrete construction. It is easy to see that if a solid wall thoroughly chilled has warm air suddenly impinged upon it that the moisture in the air will be condensed as with an ice water pitcher on a warm day. Now ordinary, monolithic concrete of a fairly rich mixture is practically waterproof. The condensed water is not readily absorbed by the wall—hence the damp condition that follows. Brick, tile and many other materials are absorbents of water to a certain degree—wood to a large degree.

It is quite clear then that if we want to eliminate dampness from sweating we must approximate the condition of such materials that do not sweat and a construction that cannot be damp under any conditions.

Various Types.

To begin with, there is the typical wet mix. Here the water practically carries the cement in saturated solution to all surfaces of the aggregate and deposits it there, enough mixing and churning being given to distribute the cement-saturated water evenly. This type has many advantages as to ultimate strength and waterproof qualities and is universally specified, but it is not in the least adapted to residence work, either as a final material or as an economy proposition.

At the other extreme is the typical dry mix (used fifteen years ago in foundations and rather generally in the concrete block industry to-day). This type, on account of excessive porosity and the great amount of tamping or pressure needed, is equally unfitted for residences. Midway in the scale, however, is another kind of concrete that has some remarkable properties—which are just what the house builder is after.

Voids Wanted.

This mix should have primarily an excess of the medium sized aggregate and sand. That is, we want voids, but we want them very, very small and not connected, so to speak. In other words, we want to approximate the structure of wood or brick, not the closeness and homogeneity of steel. It should be wet and plastic like mud, but with no surplus of water, and requires mixing for a comparatively long time. Finally, it should be rapidly cured or dried out by removing the forms as soon as possible. The qualities of this product are peculiar. It will absorb

water to a moderate amount without being subject to leakage and attains considerable tensile strength while still green; also it does not exert much pressure when setting and is not nearly so subject to expansion and contraction as a wet mix. Cracks will often re-knit 24 hours after final set, on application of pressure. Frequently scrapings from a wall, two days old, catch on the wall below and set up again, adhering so firmly that a cold chisel is required to dislodge them. Further, such a mix when cast in wall form is strong enough to hold four feet of concrete above without side support, and yet is soft enough to cut like cheese at the bottom, and is an ideal material for certain purposes.

But what we started after was, to begin with, a material approximating brick and wood, with little tendency to sweat—and finally a construction that would nullify whatever tendency there was. The last requirement is not by the double wall, that is, two concrete walls with an air space between. To carry this construction through, however, economically and structurally, several serious difficulties had to be overcome.

Problems to Be Solved.

First. Some practical construction method was needed to transmit and equalize the weights coming on the inner and outer wall. Obviously, two thin slabs stuck up on edge, one slab taking all the floor weights and the other only its own weight and part of the roof and tied together merely at intervals by through ties at right angles to walls, was not altogether satisfactory, unless each wall was over thick; also comparatively thin slabs of any length or height are particularly subject to temperature shrinkage and resultant cracking, thus requiring much reinforcing steel.

Second. A double wall construction calling for the use of core forms presents the item of considerable expense, and many practical difficulties arise if a standard construction is used. Again, the ordinary form methods are practically out of the question, due to certain special conditions peculiar to house building, viz., number and variety of openings, irregularity of walls, necessity of placing beams without waiting a long time or the great number and variety of chases, plugs or openings to be anticipated.

Third. In a general way, the point of economy so governs the whole question of residence work that unless it can be shown clearly that concrete is at least as cheap as other masonry construction it is idle to consider whether or not it is satisfactory as a whole.

Along Definite Lines.

Concrete construction has grown along certain definite lines, the general experience being that forms and form work are comparatively expensive, but that the mixing and placing can be done quite cheaply by machinery, mixer and chutes, provided there is enough yardage of cubic amount to pay the cost of installing the plant and running the system. This is based on the use of a very wet liquid mix, as that is the only kind that will flow readily.

So that, to a very great extent, working along these lines, all endeavor has gone into cheapening the handling end, very little, until recently, into investigating conditions of the mix or improving the forms. This, of course, is largely due to the ease of handling a wet mix and the fact that if enough stories are to be cast in a high building the initial cost of the forming is divided sufficiently often to bring out a very reasonable total.

But in the smaller type of building and residence, we have an entirely different proposition. The wet mix is not a satisfactory material; the yardage will not justify an elaborate handling plant, and the forming cannot be standardized upward.

Way to Save.

The savings here must be made in another way, by the method and forms themselves, in cutting down the labor of setting them up and taking down, in eliminating to a great extent the cost of shifting, in providing an automatic plumb and alignment scheme that is independent of care and trade skill, and, lastly, in using standard forms in big units that can be used on any and all buildings, irrespective of varying wall lengths, and all this with little or no depreciation of forms and equipment. This can be accomplished by a scheme of standardization longitudinally. Previously the small cast concrete building had apparently been conceived entirely as a monolith, somewhat as the first sidewalks were made, without joints.

The introduction of a separately built joint member in connection with cast walls and girders made possible the satisfying of the various form criterions noted above and also did away with the structural difficulties previously mentioned as connected with the double wall.

Example on Long Island.

In a concrete residence on Long Island, the walls of which were recently completed by this method, the entire cost of cellar and walls, including setting and shifting forms and depreciation, averaged \$5.50 a cubic yard. There were 385 cubic yards in the entire building. The dimensions of the building were 62.6x41.6x23.6 from first floor beams to roof plate. The approximate time of erection above first floor beams was fourteen working days.

As the walls largely consisted of two 4-inch slabs, each square foot of wall surface represented the equivalent of two-thirds of a cubic foot, which gave a cost per square foot of wall surface of fourteen cents. The conveying apparatus used consisted of a 5 cubic foot

mixer with hoist and bucket dumping into a very short steep chute, which in turn emptied into wheelbarrows. No scaffolding whatever was erected, runways over horses and on second floor beams being substituted.

Overhead Cost.

There is one other factor in the general problem, namely, the overhead cost of concrete work. The tendency has been in the building art to develop concrete work as a thing apart for large buildings and structures requiring great strength. Architects and engineers have become accustomed to use a standard form of specification whose requirements, if lived up to, furnished a product suitable to heavy structures, and little else. To require an ultimate strength of 2,500 pounds to the square inch where the maxi-

mum strain would never be 25 is certainly keeping on the safe side, but obviously a little absurd and very uneconomical.

The result has been that (1) in small work the requirements have not been lived up to, which practice has been more or less condoned by architects on account of the high factor of safety and (2) the segregation of the skilled concrete workers into a class employed almost entirely on big work.

But concrete is rapidly coming in as a universal building material, and with the enormous demand for cement and gravel we will find it inexpedient to be wasteful with it, either directly or indirectly, and there will soon be a real demand for skill in its use as a plastic building material, which will automatically remedy the present condition.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

****American Society of Civil Engineers,** at their annual election to be held January 20, 1915, will vote upon the following candidates: For president, Charles D. Marx, professor of civil engineering, Stamford University, California; vice-presidents, Clements Herschel, hydraulic engineer, New York City, and Daniel Bontecou, consulting engineer, of Kansas City, Mo.; treasurer, Lincoln Bush, consulting engineer, New York City; directors, Frederic Molitor, consulting engineer, New York City, to represent District 1; John V. Davies, consulting engineer, New York City, District 2; J. E. Greiner, consulting engineer, Baltimore, District 3; John B. Hawley, consulting engineer, Fort Worth, Tex., District 4; John F. Coleman, consulting engineer, New Orleans, District 5, and Herbert S. Crocker, consulting engineer, Denver, District 6.

****Yale & Towne Manufacturing Company** has secured a new sales location at 77 East Lake street, Chicago, which it will occupy for a term of years. The present location of this company's Chicago office is 74 East Randolph street.

****Brooklyn Engineers Club,** 117 Remsen street, Brooklyn, at their regular meeting, Thursday, October 29, will be addressed by Paul Bigelow, Eastern manager of the Buckeye Engine Company.

****American Hardware Manufacturers' Association.**—Annual meeting and convention at Atlantic City, N. J., October 28-30. Headquarters at the Marlborough-Blenheim Hotel.

****Harry Edward Prindle,** formerly Canadian representative of Palmer, Hornbostel & Jones, architects, has opened offices at 915 New Birks Building, Montreal, Que., for the general practice of architecture. The Montreal office of Palmer, Hornbostel & Jones has been discontinued.

****Frank W. Skinner,** formerly senior associated editor of the "Engineering Record," has opened offices as a consulting engineer at 45 Broadway, New York City, and in the Crabtree Annex, St. George, Staten Island. He will be associated in his practice with C. E. Fowler, of Seattle, Wash.

****National Housing Conference,** scheduled for Minneapolis, October 21, 22, 23, 1914, has been postponed on account of the European War.

****Moffett & Stewart, Inc.,** architects, have moved their offices from the Jessup Building to 30 North Third street, Camden, N. J.

****Robert N. Cleverdon,** architect, formerly at 15 East Fortieth street, has opened temporary offices at 2207 Andrews avenue, University Heights, New York City.

****William A. Mitchell** has resigned as director and treasurer of A. L. Guidone & Company, general contractors, 131 East Twenty-third street, Manhattan.

****Convention of City Managers** will be held in Springfield, O., December 2 to 4. Charles F. Ashburner, City manager, Springfield, O., chairman.

****National Builders' Supply Association.**—The annual convention will be held in Chicago, Ill., February 8-9, 1915. Headquarters at Hotel Sherman.

****American Society of Engineers, Architects and Constructors,** regular meetings second Wednesday of each month, in the Engineering Societies' Building, 25 West Thirty-ninth street. T. Hugh Boorman, secretary.

****Second International Exposition of Safety and Sanitation** will be held at the Grand Central Palace, New York City, December 12 to 19, 1914. This exposition is held under the auspices of the American Museum of Safety,

(Continued on Page 697.)

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Irving Dillon. Editor

PHILADELPHIA, PA., OCTOBER 28, 1914.

AMERICAN INSTITUTE OF ARCHITECTS (Organized 1857)

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Editorial Comment

A Cleveland architect is the sponsor for a movement, international in scope, which is intended to prevent further destruction by the warring forces in Europe of treasured masterpieces of art and architecture. Making every due allowance for the latitude permissible to nations engaged in military conflict there seems to be little or no excuse for the ruthless havoc wrought in Louvain, in Liege and in Rheims. Feeling that much of this vandalism might be prevented if an agreement to this affect could be had by consent of the nations involved, Mr. G. F. Hammond sent out 1,000 letters to members of the American Institute of Architects seeking an expression of opinion under this head. The replies from every section of the United States and Canada show a remarkable unanimity of opinion touching the utter needlessness of the wholesale destruction of fine buildings and objects of art in the pending conflict.

* * *

Protest was general. The destruction of architectural masterpieces and of priceless paintings and sculptures is viewed by members of the Institute as a matter of unspeakable regret. It is generally agreed that if anything can be done to prevent a continuance of the scenes of vandalism which marked the invasion of Belgium it should be done at once and should have the unqualified support of artists and of art lovers regardless of nationality. A letter from President R. Clipston Sturgis, of the American Institute of Architects, bears not only a promise of the most active co-operation, but a request that Mr. Sturgis be given permission to take up the question with President Wilson without further delay.

* * *

What Mr. Hammond has in view is an appeal backed by the Institute for immediate recognition by the belligerents of the sacredness of art; to be followed up later on with something binding in the shape of an international agreement under the terms of which care will be observed to preserve buildings of historic and artistic importance. The movement carries no reflection on any of the nations concerned in the present war. It seeks to emphasize the fact that there are some things which by reason of priceless historic or artistic value should be held above attack—which should be hedged about by an inviolate neutrality and permanently removed from the zone of military reprisal. To make this condition of lasting value the principle upon which it is based must be written into the war codes of all of the civilized peoples. Mr. Hammond has spent much of his life in the art centers of the old world and knows intimately the beauties of the localities devastated in the present conflict. The stained glass—unique, priceless and inestimable; the stately buildings realizing that beautiful definition of architecture as “frozen

music”; the museums with their canvases and sculptures handed down from the golden ages of the art—these are things which mere money will not suffice to replace; things whose loss civilization cannot contemplate without horror and indignant protest. The fraternity of French artists in New York will, it is understood, lend its influence to the movement. It is an old saying that art has no nationality. Let us hope that in the effort to guard it against warring armies there will be a general recognition of its essential non-belligerency as well as a fitting conception of its cultural value as an educational factor in times of peace.

* * *

In its last issue of the secretary's monthly letter, the Master Builders' Association of Boston calls attention to measures adopted by contractors to secure competitors' figures, and cites the following as an example:

“A general contractor's office is called up on the telephone and the statement is made that an estimate had been given by the person talking, but that the latter's estimator had gone out of town carrying his estimate book with him. He then asks if the general contractor will kindly give the amount of the estimate to the party talking, so that the latter might furnish other general contractors with a bid.”

Of this practice the latter states, “The damnable practices by which honest contractors are defrauded apparently ignoring all matters save the low bid, and by skinning and stealing have brought the building line down to a mighty mean estate.”

The letter then appeals to the owners. It asks them to readjust their conceptions of competition, and to make the factors of ability of performance of work, reputation for reliability, fairness and decency of treatment as the weight against low bidding. It says that owners should bear in mind that an unscrupulous general contractor can easily take out of the owner all, and more than the difference between his low bid, and that of a contractor who cannot persuade himself to do unworthy things. The statement is made that competition rests upon something more significant than the difference in price or time of execution. It asks that architects urge their clients to comprehend that ignoring this fact and the persistent awarding of contracts to merely the low bidder on a job inevitably leads to complete discouragement of those who wish to do work on the square.

It says in conclusion that unless a change in the attitude of owners is soon manifested the wholesomeness of the building business will be totally destroyed, and the chief sufferers will be those who pay the bills.

* * *

Ohio architects had a little dinner recently, among the humorous features of which were a number of deliciously satirical ditties

sung to the music of popular airs. One of these, to the tune, "The Son of A Gamboler," was:

"Come all you honest architects and listen to our song
It tells you what is right to do and what is very wrong
For we are agreed and bound to live up to our code
And nothing in the world should make us falter on the road.

Now never shall an architect in any way defame
Another's reputation or his buildings or his name;
At least, that is when he's around or in the neighborhood,
But wait until his back is turned, then give it to him good.

Now cutting rates is very bad; you always ought to get
Your five per cent, or six per cent or even better yet.
But when you find you're up against a four per centum rate
Offer 'em three or even two, but claim that you got eight.

The golden rule of all the rules will end this little tale
For if you don't remember this you're very sure to fail.
Do as you know you ought to do until you are in doubt;
Then do as you find you've got to do, but never get found out."

* * *

To the tune of "Old Heidelberg" this was one of the evening's hits:

"Mosaic bug, mosaic bug
We ne'er will thee forget,
You've got the craze, your partner prays
Mosaic contracts let.
The Stuff's of yore, we beg no more
For the next one hundred years,
And we'll bet you, when you get through
There'll be more cheers than tears.
And we'll bet you, when you get through
There'll be more cheers than tears."

"Maryland, My Maryland" in the following words was sung by the Chapter:

"There is one thing that makes us glad
Six percent our six percent
It makes the clients sort of mad
Six percent our six percent
The only thing you've got to do
Is draw a line or maybe two
Then send your bills and get your due
Six percent our six percent."

But then it must be remembered that these ditties were of the after-dinner variety and not meant to be taken seriously.

* * *

A partial inventory of the national assets of the United States in area, population, and the fundamental factors of economic life reveals the fact that it is not only practically self-supporting, but that it possesses, in many

lines, a large surplus available for protection or for use in meeting unusual demands from the outside world. Recently the Bureau of Foreign and Domestic Commerce, Department of Commerce, has been receiving hundreds of letters from American producers and manufacturers making inquiries regarding possible markets abroad for their surplus products and as to the ability of the United States to supply the raw materials necessary to their industries. Investigations in connection with the replies to these inquiries have developed the fact that in many instances materials now imported from abroad are of a class found in this country, the production of which, however, is still in the initial stages. This is particularly true of numerous basic materials used in the chemical industries, which were formerly wasted, but are now partially utilized.

The peculiarly fortunate position of the United States in its ability to supply its own needs is clearly seen from a survey of its production and relative contributions to the world of the great requirements of man—food, clothing and shelter. It is found, for example, that the people of the United States may be fed readily by home-produced food-stuffs, our vast area of 3,667,000 square miles representing every variety of climate and production and being nearly equal in extent to all Europe, which has a population five times that of this country.

In the mineral kingdom the pre-eminent position of the United States is unquestioned. We produce, for example, 534 million short tons of coal, 40 per cent. of the world's output; 238 million barrels of petroleum, two-thirds of the world's total; and 57 million tons of iron ore, out of a world total of 132 million. One-half of the world's copper is taken from American mines, which turned out 1¼ million pounds in 1912. Of the world's output of 466 million dollars' worth of gold, the United States produced about 20 per cent., being exceeded only by South America. About 28 per cent. of the world's silver and 30 per cent. of its lead are produced in this country. In the value of manufactures the United States leads the world, though the product of American factories is chiefly consumed at home. Of the 20.7 billion dollars' worth of manufacturers produced in the United States in 1909, only about 5 per cent. were sold to foreign countries, the world market for iron and steel products, cotton goods, chemicals and other important products of industry being thus far largely held by England, Germany and other European nations.

The foregoing are indicative of the strong position of the United States in its supply of the factors of national wealth, the details of which are found in the Statistical Abstract of the United States and various reports of the Departments of Commerce, Agriculture and Interior.

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

TRADE NEWS AND GOSSIP.

(Continued from Page 695.)

and according to present plans will surpass the very successful exhibition held at the same place last year.

**International Association of Master House Painters and Decorators of the United States and Canada will meet in annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Corcoran Building, Washington, D. C., chairman of Convention Committee.

**The Society of Beaux Arts Architects is preparing for an entertainment to be held at the Ritz-Carlton Hotel November 9-10, afternoon and evening. The proceeds will be devoted to the relief of families of architects, sculptors and painters who are in need of assistance on account of the European conflict. Many prominent professional and amateur artists have volunteered their services for this cause. A feature of the programme will be a mythological pantomime entitled "The Judgment of Paris." The committee in charge of the entertainment includes Lloyd Warren, chairman; Howard Greenley, Louis R. Metcalf, James W. O'Connor, Henry Hornbostel, Kenneth M. Murchison and Arthur Ware.

**Senator Thomas H. Cullen, of Brooklyn, has been elected chairman of the New York State Housing Commission, which was organized at Albany this week. The commission will investigate housing and sanitary conditions in the State's cities of the second class, making recommendations based on the findings to the next Legislature. Following the repeal of the first housing law, generally believed too drastic, the present commission was created by legislative act, \$6,000 being appropriated for its work.

**Thomas G. Carlin, who for many years was identified with the building business in Brooklyn, N. Y., is dead at the age of 54 years. He was the son of the late P. J. Carlin, one of the best-known builders of his

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day, and after completing his school education he went into business with his father. Later he became president of the Thos. G. Carlin Contracting Company. One of his brothers is P. J. Carlin, Superintendent of the Bureau of Buildings for the Borough of Brooklyn, N. Y.

**The city of Freiburg, Baden, Germany, plans to build 15 small residences costing \$168,300, as there is a shortage of small, low-priced houses. Especially is it difficult for families with children to obtain suitable, cheap homes, which the city proposes to remedy. These 15 houses will be divided into 24 two-room apartments and 82 three-room apartments and it is calculated they will rent for \$9,068, which is nearly 5½ per cent. on their cost.

**Some interesting information on the mortar making qualities of Illinois sands are contained in a Bulletin issued by the University of Illinois at Urbana. The matter has been prepared by C. C. Wiley, associate in civil engineering, and in addition to a description of the various tests carried out at the engineering experiment station there is an interesting discussion together with diagrams showing sieve analysis curves for the various samples.

**If the degree of activity of the building industry is taken as an index to prosperity, figures gathered by the United States Geological Survey of building operations in 1913 show that prosperity is sporadic. For instance, New York City, the largest building center of the country, showed in 1913 a considerable decrease from 1912, whereas Newark, only a few miles away, showed a large increase. Chicago, which showed the largest decrease in 1912, rallied and showed the largest increase in 1913. Most of the cities that showed increases in 1912 showed decreases in 1913. A few that showed decreases in 1912 showed increases in 1913, though none

of these, except Chicago and Pittsburgh, were among the larger cities. Many cities ascribe the decrease in 1913 to the fact that in 1912 the structures erected were unusually costly. In 48 of the largest cities of the country, the total cost of building operations in 1913 was \$659,515,746, compared with \$738,989,510 in 1912. The greatest decrease was in New York City, \$56,414,655. The largest increase was in Chicago, \$6,492,527. New York City is the leading city in the cost of building operations, notwithstanding its large decrease in 1913. Last year the building operations of that city cost \$107,104,707. The maximum annual cost of building operations in New York City was reached in 1909, when it was \$186,047,477. Efforts were made by the Geological Survey to obtain detailed information for all cities of 35,000 or more inhabitants—157 in number. Information was obtained from 147 of these cities in sufficient detail to permit the compilation of statistics. In these 147 cities the building operations in 1913 cost \$859,657,250. In 108 of these cities the new wooden buildings erected in 1913 cost \$174,197,886 and new brick buildings cost \$226,478,584. All other new buildings cost \$115,894,022. The cost of all additions, alterations and repairs was \$78,483,933. New concrete buildings were reported by 71 cities, of which Philadelphia was the leader, reporting a cost of \$4,634,855, and San Francisco was second, with \$3,745,389.

**F. P. Ramey, Citronelle, Ala., is desirous of securing manufacturers' catalogues of mill work and of other building materials.

**"Hollow Fire Clay Tile" is the subject of a neat little folder which is being sent out by Evans & Howard Fire Brick Company, 920 Market street, St. Louis, Mo. The hollow partition and building tile are deeply scored for plastering and are made in a variety of sizes

especially adapted to meet the requirements of the trade. A house built of hollow fire clay tile is referred to as being moisture, sound and vermin proof, also warmer in winter and cooler in summer.

**Remington & Rudolph, architects, announce the opening of offices for the practice of their profession at 504 Lyric Building, Richmond, Va., and desire to receive copies of manufacturers' catalogues and samples.

**The Berger Manufacturing Company, Canton, Ohio, announces the death of its treasurer and purchasing agent, Frank A. Schwertner, at his home in Canton, Ohio.

**The exhibit at the American Road Congress which will probably attract the most attention and create the most interest, is that of the Lehigh Portland Cement Company. The display is unique in its representation of the possibilities of concrete for every type of construction. The model which represents miniature concrete village contains a miniature railroad train which is constantly in motion. The shuttle train running from the concrete warehouse, which represents the Lehigh Portland Cement Company's plant, to a wharf conveys the idea of Lehigh being shipped all over the world. The beauty of the exhibit and its uniqueness lies largely in the fact that every single building, road, bridge, freight car, etc., has been made according to scale. One receives very much the impression when observing this exhibit that is gained in standing at the top of a hill and looking over the surrounding country. The roads which are modeled in the Lehigh Portland Cement Company's exhibit are all concrete. The model illustrates the advantages of concrete roads, and while the exhibit is general in its character, it shows the adaptability of concrete to every form of construction.

HINTS ON LIGHTING A MODEL HOME

The Use of Globes and Reflectors—How to Arrange the Illumination for the Various Rooms

The lighting of the model home must be free from glare and the color of the light must be right. Under no condition should one's eyes be exposed to glaring, unmodified lights, since eyestrain, which will lead to chronic headaches, insomnia, hysteria or indigestion, may result, says F. Laurent Godinez, in a recent issue of "Good Housekeeping." From the esthetic viewpoint, interior decoration to be appreciated must be seen, and an interior which is so glaringly lighted as to be annoying to one's sight can never be termed artistic. Over-brilliant lighting is opposed to refined taste, and a room so lighted is not fit to live in.

The white-light quality which is characteristic of modern illuminants is absolutely opposed to the motif of repose which should be the predominant theme in the home atmosphere. This obnoxious "white light" is uncomplimentary alike to individuals and their

surroundings. It reveals every wrinkle, emphasizes each facial blemish, and makes one's features appear old, pallid, and unrelaxed. An amber light, on the contrary, is warm, soft and inviting. It is restful to the eye, like the oil lamp, and creates an atmosphere of repose. Everything is mellowed and beautified by it.

Kind of Globes to Use.

It is not difficult to modify this unpleasant white-light effect. It can be accomplished gracefully by enclosing the offending illuminants within amber shades of glass, silk or paper. These can be obtained to conform with any decorative treatment. Lighting globes of "ground" or "etched" glass are undesirable; their good effect by day is marred by their spotty, glaring appearance at night.

Globes should be chosen which entirely conceal the glaring light within, and should

always be observed lighted and unlighted. When the glass is too thin, or "etched," or "ground," the exterior design, which may be attractive when unlighted, becomes obliterated by the glare when lighted. When it is not feasible to change globes of white glass, the desired color change can be effected, in the case of gas, by substituting amber-light for white-light Welsbach mantles. With Mazda-Tungsten electric lamps, home-made cylinders of amber gelatine film, paper, or shirred silk can be placed over the electric bulb within the white globe. Increasing the thickness of these enveloping cylinders by extra layers of the material used gives the requisite depth of amber light, which can be determined by comparison with the oil lamp as a standard.

The invention of reflectors formed by plating a corrugated glass shell with pure metallic silver has made possible what is known as indirect lighting. In this way lights placed within silver-plated reflectors direct every useful ray of light upward, where the diffusive action of the ceiling illuminates the interior with entire freedom from glare. Indirect lighting is just as cheap as direct to maintain, and is much cheaper to install, since the necessity for individual lights over desks, tables, sewing machines, sinks, and all isolated working surfaces that require localized light is obviated by a perfect general illumination. Therefore the placement of one indirect lighting source in an interior gratifies every conceivable localized requirement and saves the expense of time, labor and material in conducting wires to remote points, not to mention the cost of the numerous special lighting fixtures required. Again, in placing individual fixed lights, under the assumption that the arrangement will be permanently satisfactory, one is apt to overlook conditions which ultimately necessitate rearrangement of furniture, and extra expense for additional lights. It is possible to cut estimates of installation costs at least seventy-five per cent. by carefully analyzing the requirements of local and general illumination.

Enhancing the Pictorial Effects.

Many persons prefer to "see" a source of light, rather than an opaque fixture, within which indirect lighting equipment is often placed. The whole pictorial effect of a room may be enhanced or destroyed by its mode of lighting. Globes, or shades, which have become commonplace through vulgar usage, like the ribbed affairs of clear glass typical of commercial lighting, should never defile the atmosphere of the home. Every one should try to make his lighting as distinctive as possible, and it is just as lacking in good taste to tolerate commonplace lighting appliances in the home as to duplicate your neighbor's furniture, carpets and interior decoration. One's desire for a visible light may be satisfied by utilizing the glassmakers' bowls and urns in combination with indirect lighting equipment.

Dead light ceilings should never be used with indirect lighting, unless strictly essential to the decorative plan. In such cases

the white light can be changed by placing screens or amber-colored gelatine film over the reflectors. Ceiling finishes should always be mat-surface, or depolished. Polished surface reflect glare and produce eye-strain.

Considering the Lighting of a Model Home.

Now, referring to the plan of the model home, let us go through the house together, applying some of our lighting technique. Starting with the porch, direct or indirect lighting is applicable with either gas or electricity. If indirect lighting is preferred, the fixture can be home-made, consisting of a rustic hanging basket, with a center space to accommodate the indirect reflector and lamp; or an inexpensive terra cotta urn can be placed on a pedestal, just high enough to prevent one from detecting the modus operandi. The control for the porch light should be from inside and out. If gas is used, this can be accomplished by a pneumatic valve connected by a fine hairlike copper tube, which, while hollow, is thinner than an electric wire. The outside switch should be concealed (behind a hinged push button plate, is a good way), a precaution which facilitates the location of obscure keyholes.

General and Local Lighting for Living Room.

The living room should have both general and local lighting. The local lighting is best rendered by portable gas or electric lamps, which are obtainable in designs of infinite variety. Floor outlets should be provided, also baseboard outlets for fans, etc. There is available a new gas outlet which permits the attachment of a flexible armored tube connecting with a gas iron, fan, chafing dish, coffee percolator, or portable reading lamp, and when the tube is disconnected the gas cannot be turned on.

The control of all the lamps (some will presumably be used for decorative purposes) can be local or remote, thereby enabling one to change the effect from local to general lighting from one wall switch, which should be located at a convenient point. This, interpreted literally, with reference to egress or ingress, signifies three separate control switches. One at the front door, one at the hall door, and one at the head of the stairs would be the ideal arrangement, and if indirect lighting as a source of general illumination be used, the saving effected by not purchasing an expensive ceiling fixture would leave a surplus over the installation cost of the three-switch remote control. If a bookcase or a piano is placed in this room, one indirect lighting reflector, within an urn, with upright Welsbach mantles or one large Mazda lamp, will save fixture expense.

Advantages of the Portable Lamp.

A portable lamp may be had which gives both the indirect and local effect, a silver-plated reflector being concealed within the exterior silk shade, supplemented by small lamps on a separate pull switch. The advantage of this lamp is that it meets both general and local requirements, and reduces wiring expense by operating from one floor outlet.

Unless ceilings are high, hanging lighting fixtures have a tendency to make a room

seem cramped and small, particularly when the living room and the dining room are intended to be thrown into one, as in this instance. Unless one desires to spend a considerable amount for something quite different in the line of hanging fixtures, the procedure outlined is the best.

Where two rooms are to be combined for social functions, a hanging dome will interfere. Table candelabra afford charming lighting and can be made feasible by placing outlets beneath the dining table. One central hole in the cloth (concealed at other times by a doilie or fern dish) permits the attachment of gas or electric candelabra, the soft glow of the little candle shades being in agreeable contrast to a glaring lamp which may be so placed as to project noticeably below an "art" glass dome.

The candles can be supplemented by side wall lights, if desired, but the side wall must be regarded as a desirable locale for other than lighting which is purely functional in the decorative sense. When the brightness of the side wall light becomes offensively predominant, its pictorial value as a decorative symbol is destroyed. If general lighting is required for certain occasions, it can be supplied (indirectly) by one or two lights concealed in cornices, or behind buffets or china closets. The control should be located conveniently near the door, and care should be taken to avoid the offensive brass plates, which deface a wall. These should be countersunk, and the paper placed over them, or painted to match the wall. They are not decorative symbols, and should, therefore, be subordinated.

Lighting of the "Den."

Assuming that there is to be a table in the den, individual lamps for it and the desk, in combination with a general system as described for the living room, would be appropriate. It is certain that the portable lamps will not adequately illuminate the bookcases for reference and selection of volumes. The control should be located near the hall door.

If direct lighting is used in the bath room, wall brackets should be used. These should be placed on each side of the mirror and have pendent globes of opal glass on a level with the features of a person six feet tall. With indirect lighting, one wall bracket above the mirror will suffice. Control may be with pull chains or a wall switch, as preferred.

With direct lighting, separate fixtures will be needed over sinks and ranges, supplemented by a center ceiling fixture with opal glass-ware. With indirect lighting, one pendent center fixture will meet all local requirements, if the woodwork and side walls are not too dark in color. Several baseboard outlets should be supplied for gas or electrically operated domestic mechanisms.

Lighting for the Bed Rooms.

The bed rooms require local and general lighting. Portable lamps attached to baseboard outlets should be arranged by bedsides on somnoes or telephone tables. Baseboard outlets for dressing table lamps should be pro-

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vided. Indirect illumination renders the expense of interior closet lights, with their unreliable "automatic" switches, unnecessary, also providing an excellent light for viewing one's self in mirrors on bureaus and in pier or cheval glasses. When twin beds are placed slightly separated, the tendency is to put a portable lamp between them. Sometimes this is less convenient than a separate lamp beside each bed.

The Stairs and the Hall.

One small light (a 25-watt Mazda electric or a Welsbach Junior gas mantle) on a wall bracket, in a reflector directed against the ceiling at the head of the stairs, will light the stairs and hall at a negligible expense, even if burned all night. A similar wall bracket on the side wall, facing the large closet adjoining the den on the ground floor, will insure safety and convenience at night. Duplex control from above and below can be economically installed.

OLD WORLD BRICK AND NEW.

The architect to-day, when deliberating as to the shade, size or texture of those brick units with which his building is to be constructed, has such a variety of material to select from, that the uninteresting brick wall surface is or should be a relic of the past and brick decoration may be said to rival those celebrated examples of historical brickwork of the Old World.

With reference to the above, says George J. Jervis, in "Brick," it is interesting to note that the architect who comes back from Europe with such admiration for the old-time brick construction is often extremely particular about the size and color of a single brick unit. How illogical this is—the beauty of the old brickwork lies in the fact that its units and shades have the greatest variation. Observe the old brickwork itself and find what variation of color it possesses.

It is the finished brickwork that meets our eye—not the individual unit, nor the comparative breadth of the joint. These are as unimportant as a slipped thread in a piece of tapestry.

If, during the past half century of American architecture, as much attention had been paid to the general effect of the brick surfaces as has been paid to the size and shade of one brick sample, we should have arrived much earlier at the solution of the problem of artistic brick decoration in this country.

Brickwork, to be pleasing, must be sufficiently individual to carry the textile effect to certain well defined distances. If the house be on a narrow street, where no more

than thirty or forty feet can be put between the brick wall and the critic, that wall should be built with that distance in mind. If the house stands back a hundred or more feet from the roadway, a good rule is to make the brickwork sufficiently strong in texture and color to carry its effect to a point where the building can be seen in its entirety.

OUR FRIEND THE SKYSCRAPER.

Commenting on the ever present and by no means uninteresting subject of our friend the American skyscraper, the "New York World" observes:

"The proposed regulation of the height of buildings is not an attempt to prevent the erection of skyscrapers. It is a plan devised by experts to make them safe for their occupants and the city.

"If lower Manhattan were to be entirely built up with unregulated tall buildings, it would be almost uninhabitable at the best, and in emergencies a source of grave danger. Air circulation would be insufficient. Three-fourths of the people would always work by artificial light. There would not be room in the streets for the people, to say nothing of vehicles; nor room beneath them for the necessary subways, sewers, water, gas and heating pipes and electric conduits. A panic in such a congested mass of humanity might mean a memorable disaster.

"European cities which are held up to us as models limit strictly the height of buildings—London to 80 feet, Paris to 65.6 feet, Berlin to 72 feet. Boston, Washington and many other American cities have adopted a more generous standard. For New York nothing more radical is proposed than that high buildings must be planned with intelligent relation to the width of the streets on which they stand and the needs of their own occupants. A skyscraper rule which would not interfere with the Plaza Hotel and would not prevent the erection of the Woolworth Tower with slightly changed proportions cannot be denounced as an indiscriminate attack on tall buildings."

BEAUTY OF OLD ENGLISH COTTAGES.

If we consider the cottages of the old English villages we are impressed at once by their aspect of natural and unaffected grace, and while we recognize in each an individuality, they are each and all in harmony with each other and their surroundings.

They seem to explain and make articulate the appeal of nature. We can imagine nothing more appropriate to Sussex, says H. Bail-

lie Scott, the architect, in "The Studio" (London) on the subject of modern cottage building, than the Sussex cottage in all its variants, and if we leave the kindly sheltered places of the south for the bleak and rugged uplands of the north, we shall find the cottage there has become no less austere than the landscape.

All this varied beauty in the building of old cottages was obtained by simple and unlettered folk building in natural and unaffected ways. And we who bring to the problem all the knowledge and skill which our modern civilization boasts, have so far failed utterly to produce cottages worthy to be set by the side of the old work.

We have lost the art of producing beauty in simple building. It is somewhat unfortunate then that at such a time we should be threatened with an extensive development of cottage building, for our previous experience precludes the hope that these cottages will be designed or built by those who still retain some appreciation for the artistic aspect of the problem. And if we consider the cottages which have recently been built in England, there seems small encouragement for the hope that we have yet learned the secret of cottage building.

WORTH WAITING FOR.

Something more than a year ago the Supreme Court Justices of New York County repudiated the design that had been selected for the new court house by a jury of award.

The jury—Mr. R. S. Peabody, of Boston; Mr. Frank Miles Day, of Philadelphia, and Mr. J. L. Mauraan, of St. Louis—recommended the design of Mr. Guy Lowell, of Boston and New York, to the Court House Board as fulfilling "to an unusual degree the exacting conditions of the program," and promising "a monument in every way worthy of the City of New York."

The design was for a circular building 400 feet in diameter and 275 feet high, to be built at the intersection of North and Centre streets, New York, and of Classic treatment. The Justices, however, took exception to the professional opinion of the architect, the jury, and others well versed in the art and science of building, on the ground that the rooms in a round edifice could not be properly lighted nor ventilated. The Justices appointed a fresh jury of architects admittedly opposed to the unique design of Mr. Lowell, and they have now reported that the plan selected in competition, "despite its unusual form, is eminently fitted for its purpose as to the grouping of court rooms in small units, their lighting and ventilation, and their means of ingress and egress." Mr. Lowell's design was approved, "subject only to those slight modifications of detail which are generally expected in a rather hastily prepared competition drawing," and with minor alterations it is now to be carried out as soon as the Board of Estimate and Apportionment take action.

This action makes Mr. Lowell the official architect, guaranteeing him 6 per cent. on the cost of the \$10,000,000 building.

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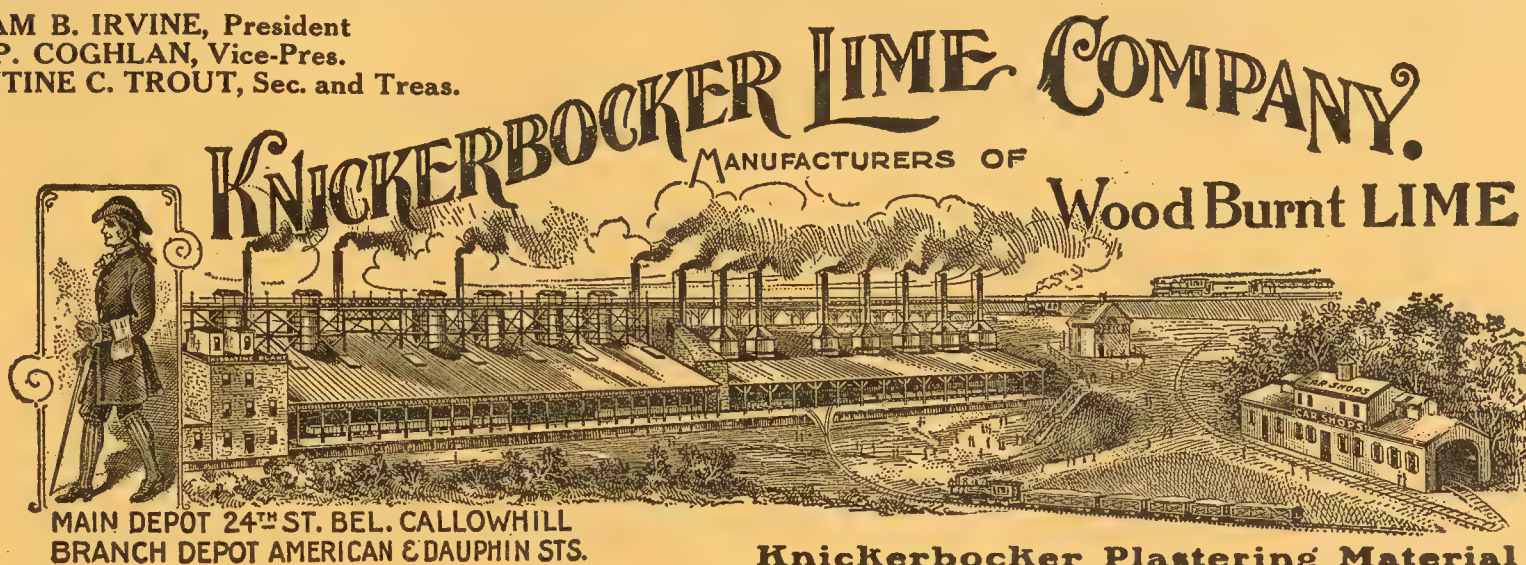
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Vol. XXIX., No. 44.

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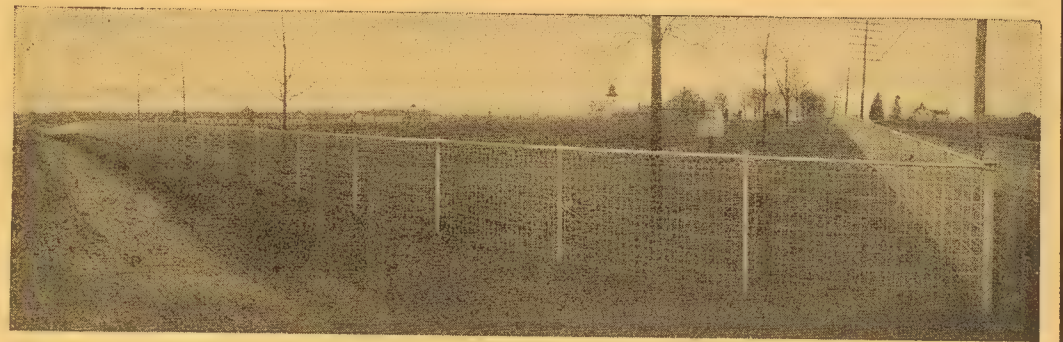
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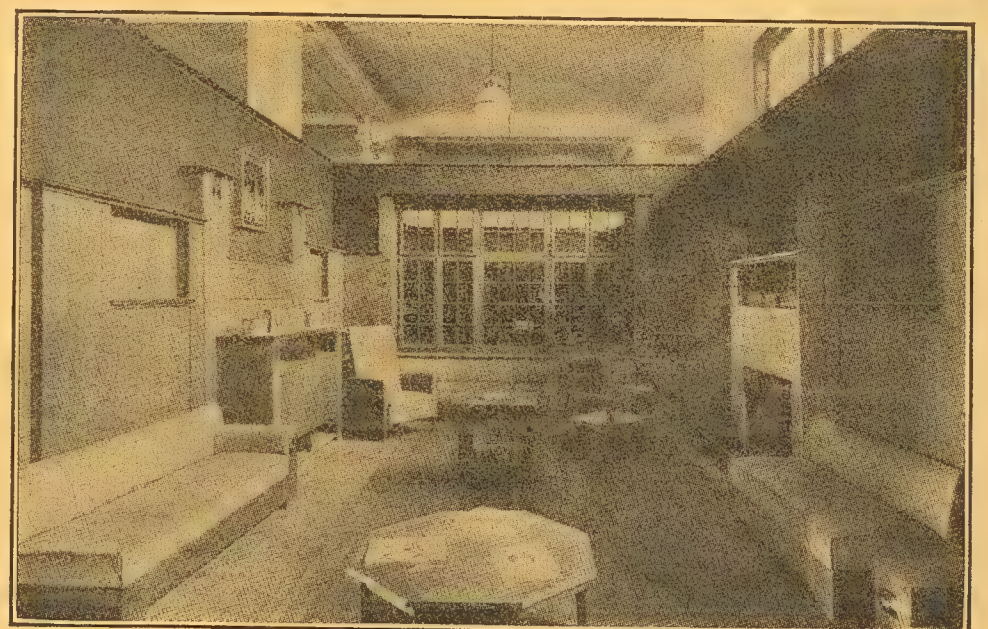
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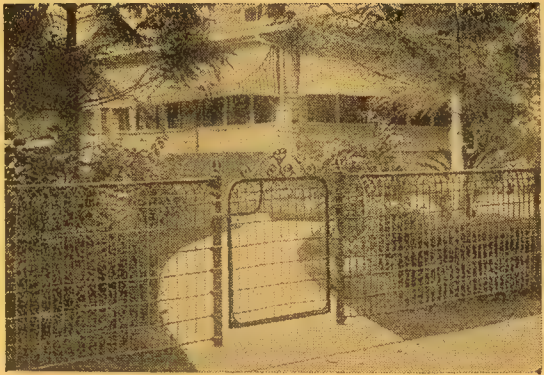
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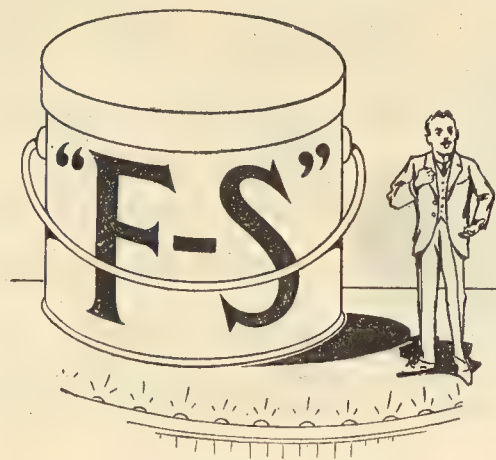


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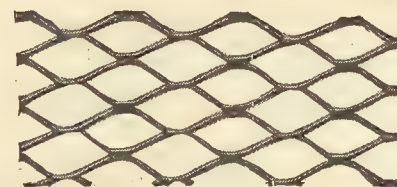
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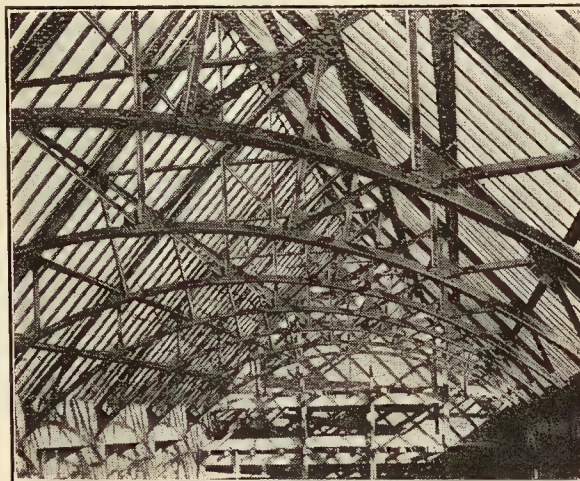
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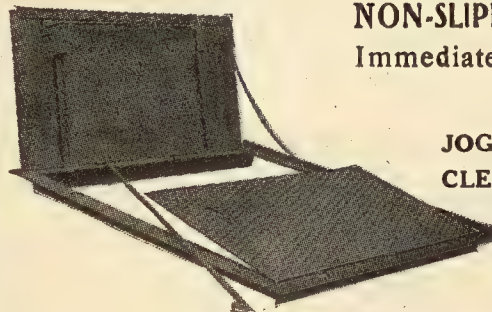
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Vol. XXIX., No. 44.

PHILADELPHIA, WEDNESDAY, NOVEMBER 4, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage (alt. and add.), Fifty ninth and Lansdowne avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Geo. H. McClatchey, 5908 Lansdowne avenue, Philadelphia. Brick, 1 story, 32x100 feet, slag roof, steam heating, electric lighting. Owner taking sub bids.

Police and Fire Station (alt. and add.), various locations, Philadelphia. Architect, Ed. A. Crane, City Hall, Philadelphia. Owner, Department of Public Safety, City Hall, Philadelphia. Brick. Consists of general alterations and repairs. Owner taking bids due November 6th. W. W. Anstine Company, 1214 Filbert street, Philadelphia, is figuring.

Garage, Wayne avenue and Washington Lane, Germantown. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, James R. Crellin, 3213 Turner street, Philadelphia. Brick and concrete, 3 stories, 56x82 feet, slag roof, metal lath, gasoline storage (heating and lighting, reserved). Architect has received bids.

Chicken House, Walnut Hill, Pa. Architects, Zantinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, George H. Lorimer, Wyncote, Pa. Frame, 1 story, 13x100 feet, shingle and tile roof, electric lighting. Architects have received bids.

Residence, 552-554 Leverington street, Manayunk, Philadelphia. \$20,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner Peter Liebert, Manayunk avenue, Manayunk, Philadelphia. Brick and plaster, 3 stories, 26x64 feet, shingle roof, steam heating, electric lighting, hardwood floors. Architects taking bids due November 6th. The following are figuring: John Duncan, 920 Walnut street; Rush J. Whiteside & Sons, 2115 Wallace street; Frank E. Wallace, 1210 Sansom street, all of Philadelphia, and W. H. Eddleman & Sons, 453 Green Lane, Roxborough, Pa., and Keller Brothers, Harmon Road, Manayunk, Pa.

Residence, Germantown, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Horace M. Potts, 147 East Coulter street, Germantown. Stone, 2½ stories, slate roof, hot

water heating, gas and electric lighting, hardwood floors. Plans in progress. Bids in ten days.

Garage (add.), Gross street, near Vine street, Philadelphia. \$1,000. Architect, Durham Brothers, Heed Building, Philadelphia. Owner, Joseph Cancelmo, 6331 Vine street, Philadelphia. Brick, 1 story, 30x25 feet, slag roof, hot water heating, electric lighting. Owner has received bids.

Laundry, 5344 Germantown avenue. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, M. W. James, on premises. Brick and concrete, 2 stories, 52x58 feet, slag roof, steam heating, electric lighting. Owner taking bids. Samuel Harting, 20 East Johnson street, and Geo. C. Fossel, 128 East Cheltenham avenue, Philadelphia, are figuring.

Police and Fire Stations (4) (alt. and add.), various locations, Philadelphia. Architect, Ed. A. Crane, City Hall, Philadelphia. Owner, Department of Public Safety, City Hall, Philadelphia. Brick. Consists of general alterations and repairs. Owner taking bids due November 6th. The following are figuring: F. A. Havens Company, 845 North Nineteenth street; P. J. Hurley, 1233 Cherry street; Mitchell Bros., 2125 Race street; J. H. Jordan, Thirty-first and Oxford streets; Ed. Fay & Sons, 2 South Mole street; F. Roe Searing, Perry Building; Standard Construction Company, Drexel Building; W. W. Anstine Company, 1214 Filbert street; E. C. Durell, 1713 North Twenty-fourth street; McCloskey-Bahls, Hale Building; Eugene Tourison, 1001 Chestnut street; David Peoples, Parkway Building, and H. H. Wehmeyer, 1004 West Lehigh avenue, all of Philadelphia.

Garage (alt. and add.), Frankford avenue and Somerset street, Philadelphia. Architects, Guy King & Company, 1513 Walnut street, Philadelphia. Owner, Jacob Strecker, on premises. Brick, 2 stories, 20x32 feet, slag roof, electric lighting, hot water heating. Revised plans in progress.

School, Eighty-fifth and Tinicum avenue, Philadelphia. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, St.

Raphael's R. C. Church, care of Rev. J. J. Kane, on premises. Brick and stone, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

Nurses' Home (alt. and add.), Germantown, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Chestnut Hill Hospital, 8815 Germantown avenue, Philadelphia. Brick, 3 stories, consists of interior alteration and addition. Architects taking bids, due November 5th. George S. Roth & Sons, 230 East Graver's lane, Germantown, Philadelphia, is figuring.

Garage, Germantown, Wayne avenue and Washington lane. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner, James R. Crellin, 3213 Turner street, Philadelphia. Brick and concrete, 3 stories, 56x82 feet, slag roof, metal lath, gasoline storage (heating and lighting reserved). Architect taking bids (revised), due November 4th. Monaghan & Losse, 214 South Twelfth street, and Freund-Seidenbach Company, Bulletin Building, Philadelphia, are figuring.

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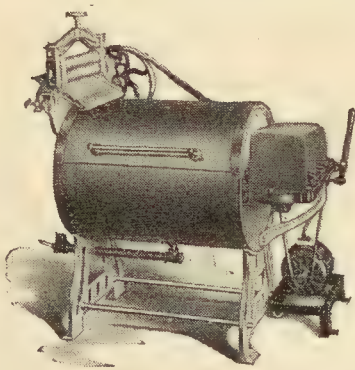
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Office Building, 304 Arch street, Philadelphia. \$50,000. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owners, Friends' Book Store, on premises. Brick and steel, fireproof, 6 stories, 40x80 feet, slag roof (heating and lighting, reserved). Contract awarded to R. C. Ballinger & Company, 218 North Thirteenth street, Philadelphia.

Church, Sixth and Erie avenue, Philadelphia. \$25,000. Architect, Chas. E. Oelschlager, Harrison Building, Philadelphia. Owner, Italian R. C. Church, Rev. Paul Gen tile, 726 Erie avenue, Philadelphia. Stone, 1 story, 50x98 feet, slate roof, steam heating, electric lighting. Contract awarded to Frank Lucci, 1345 Christian street, Philadelphia.

Residence, Mermaid Lane and Hillside Drive, Germantown. \$5,000. Architect, W. H. Thomas, 130 South Fifteenth street, Philadelphia. Owner, Henry H. Bonnell, Land

Title Building, Philadelphia. Stone, 2 1/2 stories, 31x35 feet, slate roof, hot water heating, electric lighting. Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Germantown, Philadelphia.

Warehouse (alt. and add.), 209 North Second street, Philadelphia. \$2,000. Architect, private plans. Owner, Jacob Netter, 1211 Arch street, Philadelphia. Brick, 5 stories, slag roof, steam heating, elevators. Contract awarded to Lam Building Company, 1001 Wood street, Philadelphia.

Church (alt. and add.), Forty-sixth and Chester avenue, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Chester Avenue Baptist Church, on premises. Stone, 1 story, slate roof, electric lighting. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

PENNSYLVANIA

Construction News

Hall Building, Parkland, Pa. Architect, L. G. Parks, 1211 Walnut street, Philadelphia. Owner, Parkland Heights Country Club, care R. R. Longacre, Parkland, Pa. Frame and plaster, 1 story, 60x90 feet, slag roof, electric lighting. Plans completed. Owner will take bids.

Residence (alts.), Bala, Pa. Architect, Louis Carter Baker, 34 South Seventeenth street, Philadelphia. Owner, Dr. Chas. A. Service, Bala, Pa. Consists of new bath room and dressing room, tin roof, waterproofing. Architect has received bids.

Garage (add.), Bryn Mawr, Pa. Architects, Wm. Steele & Sons Company, Sixteenth and

Arch streets, Philadelphia. Owner, J. Howard Supplee, Rosemont, Pa. Brick and concrete, 2 stories, slag roof, steam heating, electric lighting, gasoline storage. Builder Wm. Steele & Sons Company, Sixteenth and Arch streets, will take sub-bids.

Apartment House, Haverford, Pa. \$60,000. Architects, McIlvain & Roberts, Land Title Building, Philadelphia. Owner, McIlvain & Company, Land Title Building, Philadelphia. Stone and frame, 3 stories, 56x146 feet, slate and slag roof, steam heating, electric lighting. Builders Metzger & Fisher, Denckla Building, Philadelphia, taking sub-bids.

Residences (2), Dallas, Pa. Architect,

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Thomas Podmore, Wilkes-Barre, Pa. Owner, Mrs. S. W. Townend, 79 West Union street, Wilkes-Barre, Pa. Frame, 2½ stories, 27x35 feet and 30x35 feet, shingle roof, hot air heating, gas and electric lighting. Plans in progress. Architect will take bids in one week.

High School, Towanda, Pa. \$110,000. Architects, Pierce & Bickford, Elmira, N. Y. Owner, Board of Education, Towanda, Pa. Brick, stone, concrete and steel, fireproof, 3 stories, slate and slag roof, mechanical heating system, electric lighting, slate blackboards. Plans in progress.

Masonic Temple, Wilkes-Barre, Pa. \$75,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre. Owner, Masonic Temple Building Committee, H. N. Rust, Chairman, 515 South Franklin street, Wilkes-Barre, Pa. Brick, steel and terra cotta, fireproof, 4 stories, 58x120 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and dampproofing, metal sash, safety tread, steel lockers. Plans in progress. Architects will take bids in one month.

School, Luzerne Borough, Pa. \$50,000. Architects, Pettebone & Lewis, Second National Bank Building, Wilkes-Barre, Pa. Owner, Luzerne Borough School District. Brick, stone trimmings, 3 stories, slate and slag roof (heating, not decided), electric lighting, slate blackboards. Preliminary plans in progress.

Nurses' Home, Hazleton, Pa. \$50,000. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owner, State Hospital of The Middle Coal Fields of Pennsylvania, Hazleton, Pa. Stone, 3 stories, 40x80 feet, slate roof, steam heating, electric lighting. Plans in progress.

School, Morton, Pa. Architect, Lewis F. J. Moore, Media, Pa. Owner, Board of Education, Morton, Pa. Brick and plaster, 1 story, 70x70 feet, shingle roof, steam heating, electric lighting. Owners taking revised bids due November 10th. The following are figuring: Wm. R. Dougherty, 1610 Sansom street; J. B. Flounders, 1329 Arch street; Monaghan & Losse, 214 South Twelfth street, all of Philadelphia; Lansdowne Construction Company, Lansdowne, Pa.; Lindsay & Moorehouse, Media, Pa., and Mercadante & Sons, Chester, Pa.

High School, Pittsburgh, Pa. \$1,000,000. Architect, Ed. Stotz, 213 Sixth avenue, Pittsburgh, Pa. Owner, Board of Education, care Geo. W. Gerwig, Secretary, Fulton Building, Pittsburgh, Pa. Brick, steel and concrete, 4 stories and basement, 400x300 feet, slag roof, steam heating, electric lighting, cement floors, metal lath, waterproofing and dampproofing, metal sash and frames, enamel brick, safety treads. Owner has received bids.

Undertaker's Establishment (alts.), Norristown, Pa. \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, D. Y. Mowday Estate, 242 East Main street, Norristown, Pa. Brick and terra cotta, 3 stories, 55x25 feet, tin roof, steam heating, electric lighting, tile work. Plans in progress. Owner will take bids.

Farm House (alts.), Whitford, Pa. \$2,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, Whitford Lodge, Whitford, Pa. Stone and frame, 2½ stories. Consists of new partitions and plumbing fixtures. Architects have received revised bids.

Church and Rectory, Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street,

Philadelphia. Owner, St. Matthew's R. C. Church, care Rev. J. P. Parker, Conshohocken. Stone, 1 and 3 stories, 65x145 feet and 40x65 feet, slate roof, steam heating, electric lighting. Plans in progress.

School Building, Archbald, Pa. Architect, John J. Feeney, Coal Exchange Building, Scranton, Pa. Owner, Board of Education, Archbald, Pa. Brick and stone, 2 stories. Details not decided. Plans about to be started.

Residence, Scranton, Pa., \$6,000. Architect, Frank J. Miller, Peoples Bank Building, Scranton, Pa. Owner, Fred W. Lee, Dime Bank Building, Scranton, Pa. Frame and stucco, 2½ stories, 30x38 feet, shingle roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath. Plans in progress. Architect will take bids in one month.

School, Carbondale Heights, Pa. \$150,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Board of Education, Carbondale, Pa. Brick, stone and steel, fireproof, 3 stories, slate roof, warm air mechanical heating system, electric lighting, metal lath, waterproofing and dampproofing. Plans in progress.

Residence, Pittston, Pa. \$6,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, John H. Kresge, Pittston, Pa. Frame and stucco, 2½ stories, 24x40 feet, slate roof, hot water heating, gas and electric lighting, metal lath. Plans in progress.

Store Building, Pittston, Pa. \$15,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, C. H. Cutler, Pittston, Pa. Brick and limestone trimmings, 2½ stories, 33x80 feet, slag roof, steam heating, gas and electric lighting. Architect ready for bids.

Comfort Station, Scranton, Pa. \$25,000. Architect, J. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, City of Scranton, care B. Mosen, City Hall, Scranton, Pa. Concrete, 1 story, 61x27 feet, concrete roof, steam heating, electric lighting. Owner taking revised bids due November 5th.

Residence, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Harry Hallman, Pottstown, Pa. Frame and plaster, 2½ stories, 25x40 feet, slate roof, hot water heating, electric lighting, oak floors. Owner taking bids due November 6th. F. H. Keiser, W. H. Wiand, H. L. Halteman, all of Pottstown, Pa., are figuring.

Stable and Garage, Villa Nova, Pa. Architects, Boyd, Abel & Coneys, Fifteenth and Walnut streets, Philadelphia. Owner, name withheld. Stone and terra cotta, 1½ stories, 75x120 feet, slate roof, hot water heating, electric lighting, gasoline storage. Revised plans in progress.

Stable, Media, Pa. Owner, Ellis Parker, Media, Pa. Architect, John C. Norton, Bryn Mawr, Pa. Stone and concrete, 3 stories, 75x100 feet, slate roof, electric lighting, cork floors, waterproofing. Plans in progress.

Store and Hall Building, Shenandoah, Pa. Architect, H. E. DeHoff, 48 South Sixty-first street, Philadelphia. Owner, J. A. Mandour, Shenandoah, Pa. Brick, 3 stories, 57x70 feet, slag roof, central plant heating, electric lighting, metal lath. Architect taking bids, due November 9th. F. Roe Searing, Perry Building, Philadelphia, is figuring, in addition to those previously reported.

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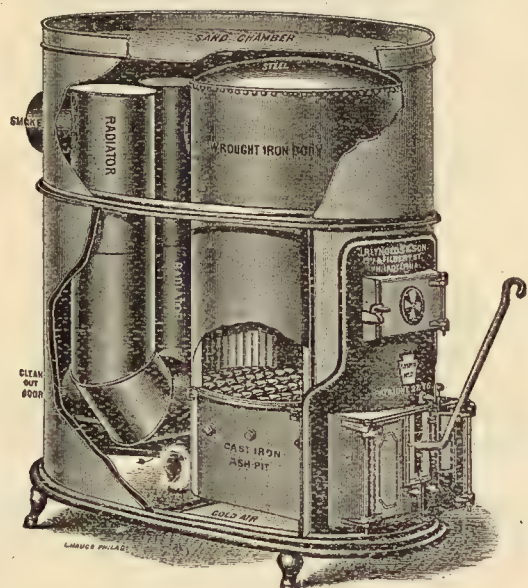
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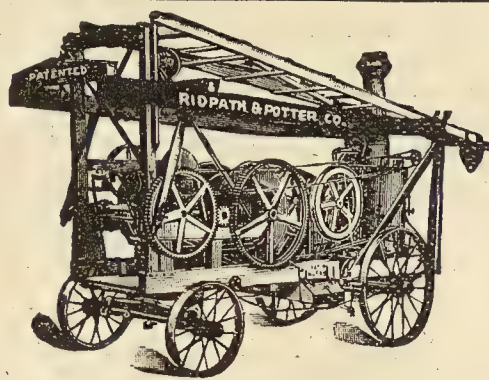
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Hotel, Hazleton, Pa. Architect, John C. Norton, Bryn Mawr, Pa. Owner's name withheld. Brick, steel and concrete, 6 stories, 62x200 feet, slate roof, hot water heating, electric lighting, metal lath, waterproofing and dampproofing, metal frames and sash. Plans in progress.

Street Paving and Sewers, Hazleton, Pa., \$350,000. Engineer, city's. Owner, City of Hazleton, City Hall, Hazleton, Pa. Voted for at election, November 3rd.

Street Paving and Sewers, Miner's Mills, Pa., \$40,000. Owner, Borough of Miner's Mills. Voted for at election, November 3rd.

PENNSYLVANIA

Contracts Awarded

Residence, Kingston, Pa. \$13,000. Architect, Geo. S. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Chas. H. Shields, 62 South Washington street, Wilkes-Barre. Hollow tile and stucco, 2 stories, 50x39 feet, shingle roof, gas and electric lighting, damp-proofing (heating, reserved). Contract awarded to Wilson J. Smith, 293 South Main street, Wilkes-Barre, Pa.

Factory, Wilkes-Barre, Pa. Architect, private plans. Owner, Charles W. Kosek, 810 North Pennsylvania avenue, Wilkes-Barre, Pa. Brick, 1 story, 27x62 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to John E. James, 45 South Grant street, Wilkes-Barre, Pa.

Residence, Paoli, Pa. Architect, Herbert C. Wise, Franklin Building, Philadelphia. Owner, Dr. O. G. L. Lewis, Berwyn, Pa. Stone and frame, 2½ stories, 25x65 feet, shingle roof, hot water heating, electric lighting. Contract awarded to W. H. Parlamen, Devon, Pa.

Administration Building, Chapel and Residence, Pittsburgh, Pa. \$160,000. Architect, Thomas Hannah, 1712 Keenan Building, Pittsburgh, Pa. Owner, Western Theological Seminary, Pittsburgh, Pa. Brick, terra cotta, fire-proof, 3 stories, 165x200 feet, slate roof, metal lath, cork floors, metal doors and trimmings, metal sash and frames (heating and lighting, reserved). Contract awarded to J. E. & A. L. Pennock, Land Title Building, Philadelphia.

Residences (3), Llanerch, Pa. Architects, (Asso.) Frank Seeburger & Charles F. Rabenold, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone and plaster, 2½ stories, 24x36 feet, 30x25 feet and 30x26 feet, shingle and canvas roofs, hot water heating, electric lighting. Contract awarded to Deaves & Moore, Llanerch, Pa.

Church (alt. and add.), East Mauch Chunk, Pa. Architects, Watson & Huckel, 1209 Walnut street, Philadelphia. Owner, St. John The Evangelist Church, East Mauch Chunk, Pa. Stone, 1 story, slate roof, steam heating, electric lighting. Contract awarded to Chas. Neast, East Mauch Chunk, Pa.

Store and Residence, Scranton, Pa. \$7,000.

Architect, private plans. Owners, Runas Bros., North Main and Clearview streets, Scranton, Pa. Frame, 2 stories, 50x55 feet, slate roof, steam heating, gas and electric lighting. Contract awarded to Nicholson Lumber Company, 1742 Dickinson street, Scranton, Pa.

Hose House, Blakely Borough, Pa. Architect, Guy W. Osterhout, Connell Building, Scranton, Pa. Owner, Borough of Blakely, Blakely, Pa. Brick, 2 stories, 26x54 feet, slate roof, steam heating, electric lighting, concrete floors. Contract awarded to Peck Lumber Company, Peckville, Pa.

Church (add.), Simpson, Pa. \$20,000. Architect, E. H. Davis, Connell Building, Scranton, Pa. Owner, Simpson M. E. Church, Simpson, Pa. Brick veneer, 1 story, 65x75 feet, slate roof, steam heating, gas and electric lighting, tile work, waterproofing and dampproofing. Contract awarded to Washburn Williams Company, 119 Meridian street, Scranton, Pa.

Stores (2), Scranton, Pa. \$7,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owner, Godwin Estate, Scranton, Pa. Brick and terra cotta, 2 stories, 30x60 feet, slate roof, steam heating, gas and electric lighting, waterproofing and damp-proofing. Contract awarded to Valverde Manufacturing Company, Brook street and Cedar avenue, Scranton, Pa.

Garage, Scranton, Pa. \$17,000. Architect, J. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, Hyde Park Gas & Water Company, Scranton, Pa. Brick, 1 story, 103x56 feet, slag roof, steam heating, gas and electric lighting, concrete floors, waterproofing and dampproofing. Contract awarded to F. E. Sykes & Company, Pauli Building, Scranton, Pa.

Residence, Wilkes-Barre, Pa., \$2,200. Architect, private plans. Owner, John Mozak, Wilkes-Barre, Pa. Frame, 2 stories, 17x40 feet, slag roof, hot air heating, electric lighting. Contract awarded to Charles Nordstrom, 293 North Hancock street, Wilkes-Barre, Pa.

Residence, Wilkes-Barre, Pa., \$2,700. Architect, private plans. Owner, Henry Vonder-

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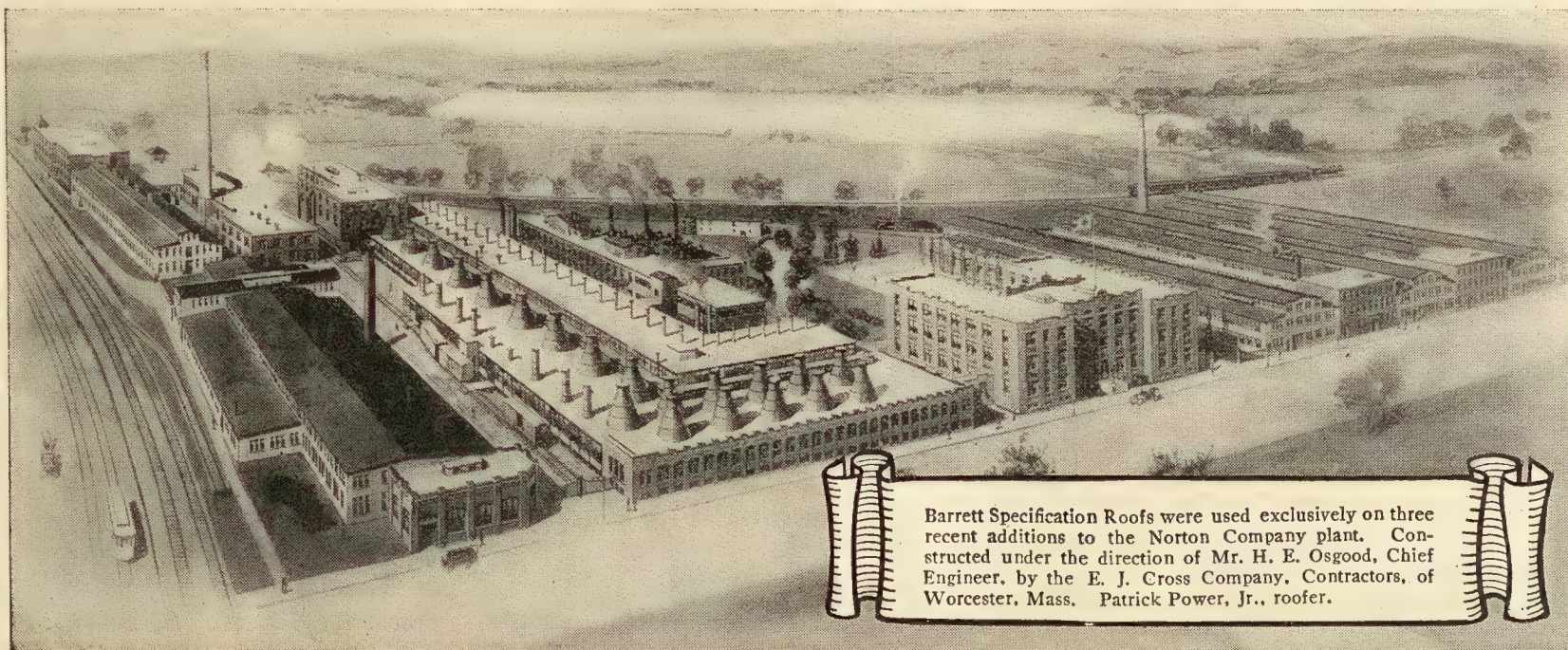
A copy of The Barrett Specification with roofing diagrams mailed free on request.

Special Note We advise incorporating in plans the full wording of The Barrett Specification, in order to avoid any misunderstanding. If any abbreviated form is desired, however, the following is suggested:

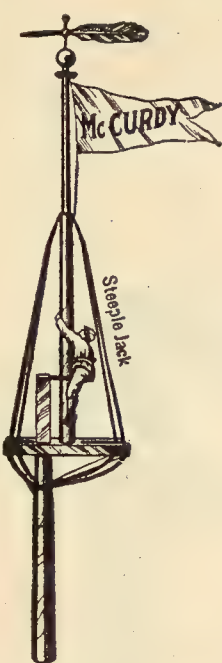
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herd, Wilkes-Barre, Pa. Frame, 2 stories, 18x42 feet, slag roof, hot air heating, gas lighting. Contract awarded to R. E. King, 82 Church street, Wilkes-Barre, Pa.

Stable, Scranton, Pa., \$2,500. Architect, private plans. Owner, Bull's Head Coal Co., North Main avenue and Providence road, Scranton, Pa. Frame, 2 stories, 32x80 feet, shingle roof, electric lighting. Contract awarded to Spruks Bros., Cedar and Orchard streets, Scranton, Pa.

Store Front, 208 Spruce street, Scranton, Pa., \$2,000. Architect, private plans. Owner,

Agnes E. Kearney, on premises. Brick, 1 story. Contract awarded to Nicholson Lumber Co., 1742 Dickson street, Scranton, Pa.

Bridge, Maiden Creek, on the Schuylkill and Lehigh Branch, near Albany, Pa. Architect, William Hunter, Twelfth and Market streets, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets, Philadelphia. Concrete and wood, 175 feet long. Contract awarded to M. & J. B. McHugh, Commercial Trust Building, Philadelphia.

NEW JERSEY

Construction News

Residence (alt. and add.), Atlantic City, N. J. \$2,000. Architect, B. Ireland, Bartlett Building, Atlantic City, N. J. Owner, name withheld. Brick and frame, 3 stories, slate roof, steam heating, gas and electric lighting, tile work. Plans in progress.

Bungalow, Ventnor, N. J. \$4,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, Jules Cohen, 4705 Atlantic avenue, Atlantic City. Brick and stucco, 1½ stories, 36x40 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans about completed. Architect will take bids in ten days.

Residences (2), Ventnor, N. J. \$8,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, H. G. Harris, Bartlett Building, Atlantic City, N. J. Brick, frame and stucco, 1½ stories, 24x36 feet each, slate roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

School, Stone Harbor, N. J. \$12,000. Architect, B. Ireland, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Stone Harbor, N. J. Rough cast, 2 stories, asbestos shingle roof, slate blackboards, electric lighting (heating, separate bids). Owner taking bids due November 5th. The following are figuring: John Botwright, 5909 Pine street, Philadelphia; F. Roe Searing, Perry Building, Philadelphia; Parson & Robbins, Holly Beach, N. J.; Thompson Brothers, 14 South Ohio avenue, Atlantic City, N. J.; Peterson Construction Company, Clayton, N. J.; W. L. Turpins, Stone Harbor, N. J.; Larsen Construction Company, Stone Harbor, N. J.; Wm. Eisenberg, Woodbine, N. J.; W. A. Richman, Moorestown, N. J.

Factory, Millville, N. J. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Caloris Company, care Mr. Fredericks, 2110 West Allegheny avenue, Philadelphia. Brick, 1 story, 70x160 feet, slag roof, steam heating, electric lighting. The following are figuring: Stacy Reeves & Sons, 2011 Market street, Philadelphia; B. Garrison, Henry Hoffman, both of Millville, N. J.

Power House, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, Victor Talking Machine Company, Camden, N. J. Brick and concrete, 1 story, 100x200 feet, slate roof. Plans in progress. Bids in about ten days.

Bank, Swedesboro, N. J. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Swedesboro National Bank, Swedesboro, N. J. Brick and marble, 2 stories, 49x71 feet, slag roof, heating not decided, electric lighting. Plans in progress. Bids in about ten days.

Bungalow, Merchantville, N. J., \$3,000. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, Frank Ruth, Jr., Merchantville, N. J. Frame, 1½ stories, 29x40 feet, shingle roof, hot water heating, gas lighting. Plans in progress.

Residences (4), 409-11-13-15 Winslow street, Camden, N. J. Architect, private plans. Owner, Raymond L. Warren, 522 Market street, Camden, N. J. Brick, 2 stories, 12x45 feet each, slag roof, hot air heating, gas and electric lighting. Owner taking sub-bids.

Residences (2), 4009-11 Westfield avenue, Camden, N. J. Architect, private plans. Owner, Joseph M. Post, 314 North Forty-second street, Camden, N. J. Hollow tile and plaster, 2 stories, 14x42 feet each, slag roof, hot air heating, gas and electric lighting. Owner taking sub-bids.

Stable, 456 Kaighn avenue, Camden, N. J. Architect, private plans. Owner, Samuel Goldberg, on premises. Brick and frame, 1 story, 22x14 feet, slag roof, electric lighting. Owner taking sub-bids.

Oil Storage House and Bulkhead, Absecon Inlet, N. J. Architect, Private plans. Owner, United States Government, care of Major E. N. Johnston, Wilmington, Del. Frame, 1 story, 10x16 feet and 20x51 feet, asbestos shingle roof. Owners taking bids, due November 7th. The following are figuring: A. W. Wentzell, 2 North Oakland street, Ventnor, N. J.; C. H. Bowne, 31 Montgomery

street, Jersey City, N. J.; S. L. Smith, 1026 Simpson avenue; Bailey Transportation Co., 425 North Massachusetts avenue; Edw. L. Bader, S. Baker, 919 North Missouri avenue; F. W. Willetts, manager, care Atlantic Dredging Co., Reed Apartment; E. J. Holland, Montgomery avenue and Thoroughfare; Richard Parrott, 51 Overlook Place, all of Atlantic

City, N. J.; Conger-Duncan Const. Co., 17 Battery Place; Snare & Triest Co., 233 Broadway; Spearin & Preston, 90 West street; Coast & Lakes Contracting Co., 41 Broad street, all of New York City; Edw. Fay & Son, 2 South Mole street; William A. Mundy, 328 South Alder street; Ellis D. Thompson, 227 Plaza Building, Philadelphia.

NEW JERSEY Contracts Awarded

Bank (alts.), Trenton, N. J. \$30,000. Architects, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, Mechanics National Bank, State and Warren streets, Trenton, N. J. Consists of remodeling interior. Contract awarded to Hoggson Brothers, 7 East Forty-fourth street, New York City.

Garage, 237 East State street, Trenton, N. J. \$3,000. Architect, private plans. Owner, Chas. W. Beddiges, 220 East State street, Trenton, N. J. Brick, steel and terra cotta, 1 story, 45x80 feet, slag roof, electric lighting, concrete floors. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

Store and Apartments, Atlantic City, N. J. \$12,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, Hayday Estate, Atlantic City, N. J. Brick, 3 stories, 18x80 feet, slate roof, hot water heating, gas and electric lighting, tile work, waterproofing and dampproofing. Contract awarded to H. G. Scull, Sheen Building, Atlantic City, N. J.

Hotel (add.), Spring Lake, N. J. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owner, New Monmouth Hotel, Spring Lake, N. J. Brick, 5 stories, slate roof. Consists of fifth story addition (heating and lighting, reserved). Contract awarded to H. H. Moore, Spring Lake, N. J.

Warehouse, 653 South Second street, Camden, N. J. Architect, private plans. Owners, New Jersey Grocery Co., on premises. Brick and frame, 3 stories, 25x40 feet, slag roof, electric lighting, concrete floors. Contract

awarded to W. S. Richardson, 201 Mechanic street, Camden, N. J.

Police Station (alt. and add.), Camden, N. J. Architect, private plans. Owner, City of Camden, City Hall, Camden, N. J. Brick, 3 stories, 36x42 feet, tin roof, electric lighting. Contract awarded to J. W. Draper, 436 Had-don avenue, Camden, N. J.

Residences (4), 1643 to 1649 Mt. Ephraim avenue, Camden, N. J. Architect, private plans. Owner, Mrs. Mary Lind, Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, 18x56 feet each, slag roof, hot air heating, gas and electric lighting. Contract awarded to Emil Schulke, 1183 Jackson street, Camden, N. J.

Residences (2), Trenton, N. J., \$3,000. Architect, private plans. Owners, Greenwood Realty Co., Forst Richey Building, Trenton, N. J. Brick and frame, 2½ stories, 23x34 feet, slate and tin roof, hot air heating, gas and electric lighting. Contract awarded to James Burks, Trenton, N. J.

Theatre (alt. and add.), 142 East State street, Trenton, N. J., \$11,500. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owners, E. Mercer Shreve Estate, Trenton, N. J. Brick, 1 story, 40x82 feet, slag roof, steam heating, electric lighting, composition floors. Contract awarded to W. J. & J. H. Morris, Broad Street Bank Building, Trenton, N. J.

Store Building (alt. and add.), 125 Factory street, Trenton, N. J., \$1,600. Architect, Geo. W. Seaman, Trenton, N. J. Owners, Aronson & Spiegel, on premises. Brick, 1 story, 21x49 feet, slag roof, steam heating, electric lighting. Contract awarded to Louis Levy, Trenton, N. J.

MARYLAND Construction News

Stable and Barn, Elkton, Md. Architects, Cornell & Mathews, Bulletin Building, Philadelphia. Owner, Lawrence B. Levy, Elkton, Md. Frame, 1½ stories, 52x80 feet, composition roof. Architect taking bids. Geo. F. Pawling Company, Broad and Vine streets; Wells Construction Company, Witherspoon Building; J. Myers & Sons Company, Witherspoon Building, Philadelphia, are figuring.

Hospital, Easton, Md. Architects, Guy King Company, 1513 Walnut street, Philadelphia. Owner, New Emergency Hospital, Easton, Md. Brick and stone, fireproof, 3 stories, 38x100 feet, slag and slate roof, vapor vacuum heating, electric lighting, metal lath, waterproofing. Plans in progress.

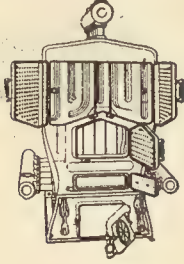
Hospital (add.), Raynor Park, Md. Architect not yet selected. Owner, the Kernan Hospital for Crippled Children, care of Frederick C. Schamberger, Trustee, Raynor Park, Md. Will consist of two wings 60 feet long, nurses' and doctors' home and laundry and engine rooms. Architect will soon be selected.

Residences (3), Falls Road and Hamden street, Baltimore, Md., \$9,000. Architect, F. E. Beall, 306 St. Paul street, Baltimore. Owner, Dr. Henry Naylor, 3818 Roland avenue, Baltimore. Brick, 2 stories, 14x48 feet each, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residence, Annapolis, Md. Architect, Bayard Turnbull, 328 North Charles street, Baltimore, Md. Owner, Carroll S. Alden, 73 Shipwright street, Annapolis, Md. Frame, 2½ stories, 32x38 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids. The following are figuring: W. E. DeBaum, 15 East Fayette street; R. B. Mason, 308 West Madison street; R. E. Chambers, Thirty-sixth and Roland avenue, all of Baltimore, Md., and Elmer Parkinson, James J. Stehle, Philip Hervieux, all of Annapolis, Md.

Bakery, High street, Baltimore, Md. Architect, John Freund, Jr., Hoffman Building, Baltimore. Owners, City Baking Company, Equit-

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Mill Work
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O. M. WEBER CO., Inc.
North Wales, Pa.

able Building, Baltimore. Brick, 2 stories, details undecided. Plans in progress.

Residence, 3505 Lakeview avenue, Baltimore, \$4,500. Architect, private plans. Owner, B. H. Henderson, Equitable Building, Baltimore. Frame, 2½ stories, slate roof, steam heating, electric lighting. Plans in progress.

Apartment House, Park Drive, near Lakeview avenue, Baltimore, \$15,000. Architect, J. H. Thuman, 2134 Oak street, Baltimore. Owner, architect. Brick, 3 stories, 40x87 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Architect taking bids. Consolidated Engineering Company, Calvert Building, Baltimore, Md., is figuring.

Apartment Houses (2), Linden avenue, near Druid Hill Park, Baltimore, Md. Architect, Henry J. Finley, St. Paul and Saratoga streets, Baltimore. Owner's name withheld. Brick, 3 stories, slag roof, steam heating, electric lighting, metal lath, tile work. Architect taking bids. Consolidated Engineering Company, Calvert Building, Baltimore, is figuring.

Residence, Roland Park, Md., \$10,000. Architects, Marsh & Gette, 46 Cedar street, New York City. Owner, W. V. Coney, 612 Wyndhurst avenue, Roland Park, Md. Frame, 2½ stories, 33x32 feet, slate roof, steam heating, gas and electric lighting, hardwood floors, tile work. Architects taking bids. The following are figuring: G. W. Tovell, Eutaw and Dolphin street; Roland Park Co., Roland Park, Md.; Gladfelter & Chambers, 2072 Woodberry avenue, Baltimore, Md.

Factory (add.), 1029-31 Haubert street, Baltimore, \$3,000. Engineer, E. B. Miller, Garrett Building, Baltimore. Owners, G. Ober & Sons Co., U. S. Fidelity and Guaranty Building, Baltimore, Md. Brick, 2 stories, 24x30 feet, slag roof, electric lighting. Plans in progress.

Store (remodeling), Howard and Lexington streets, Baltimore, Md., \$25,000. Architects, Smith & May, Law Building, Baltimore. Owners, Read Drug and Chemical Co., on premises. Consists of general remodeling of interior, steam heating, electric lighting, tile floors. Architects taking bids. The following are figuring: W. E. Burnham, Law Building; Blake & Engle, Law Building; Singer-Pentz

Co., Equitable Building; Edward Brady & Son, 1113 Cathedral street; J. Henry Miller, Inc., Eutaw and Franklin streets, all of Baltimore, Md.

Picture Theatre, 1 and 3 South High street and 913 East Baltimore street, Baltimore, Md., \$15,000. Architect, John Freund, Jr., Hoffman Building, Baltimore. Owner, J. Burman, Union Trust Building, Baltimore. Brick, 2 stories, 33x102 feet, slag roof, steam heating, electric lighting, concrete floors, metal lath, waterproofing and dampproofing. Architect taking bids, due November 6th. The following are figuring: F. Decker & Son, 1209 East Biddle street; C. L. Stockhausen, Gay and Water streets; Edward Walters & Co., 509 North Charles street; T. B. Stanfield & Co., 212 Clay street; Blake & Engle, Law Building; Joseph Schamberger, 2117 East Baltimore street; L. Schoenlein & Son, 2217 East Baltimore street; Adam Kratz, 118 South Carrollton avenue; H. Ford, 613 North Fremont street; Ideal Construction Company, Calvert Building; Singer-Pentz Company, Equitable Building; J. L. Robinson Construction Company, Knickerbocker Building, all of Baltimore.

MARYLAND

Contracts Awarded

Hotel (rebuilding), Hagerstown, Md. Architect, private plans. Owner, Mrs. William T. Hamilton, Hagerstown, Md. Brick and frame, 3 stories, slate roof, steam heating, electric lighting, tile work, metal lath, waterproofing and dampproofing. Contract awarded to Geo. B. McWolf, Hagerstown, Md.

Bungalow, West Arlington, Md. Architect, W. M. Geiske, Gunther Building, Baltimore, Md. Owner, Carl F. New, 604 American Building, Baltimore. Frame and stucco, 1½ stories, 30x54 feet, slate roof, steam heating, electric lighting. Contract awarded to A. Knell, Jr., 215 St. Paul street, Baltimore, Md.

Store Building (alt. and add.), 227 North Howard street, Baltimore. Architect, private plans. Owners, Safe Deposit and Trust Co., 9 South street, Baltimore. Brick, 3 stories, steam heating, electric lighting. Contract awarded to John E. Marshall & Son, 121 Mercer street, Baltimore.

Residence, Ten Hills, Md., \$5,500. Architect, W. M. Gieske, Gunther Building, Baltimore. Owner, John J. Heavey, 1623 North Monroe street, Baltimore. Frame and stucco, 2½ stories, 30x33 feet, slate roof. Contract awarded to John H. Gerwig, Catonsville, Md.

Armory, Belair, Md., \$23,500. Architect, John B. Hamme, Wiest Building, York, Pa. Owners, Maryland State Armory Board, Baltimore, Md. Brick and stone, 2 stories, 65x145 feet, slate and slag roof, electric lighting, steam heating, metal lath, dampproofing and waterproofing. Contract awarded to J. W. Richardson, Equitable Building, Baltimore, Md.

Club House, Baltimore, Md., \$200,000. Architects, Wyatt & Nolting, Keyser Building, Baltimore. Owner, B. P. O. E., Baltimore, Md. Builder, Charles L. Stockhausen Company, Inc., Marine National Bank Building, Baltimore, has awarded the following contracts: Heating, to Walter E. Hill & Co., 203 North Liberty street, Baltimore; plumbing, to Allen M. Bean, 649 North Fulton avenue, Baltimore; electric work, National Electric Co., 613 East Lombard street, Baltimore; vacuum cleaning plant, to The Tues

Co., 15 East Fayette street, Baltimore; marble work, Evans Marble Co., 204 East York street, Baltimore; painting, George J. Roche & Son, Holiday and Lexington streets, Baltimore, mill work, John Thomas & Son, 1125 Leadenhall street, Baltimore; roofing, William F. Eller & Co., 119 Denver street, Baltimore; fireproofing, National Fireproofing Co., Washington, D. C.; limestone, J. Hoadley & Son, Stinesville, Indiana; dampproofing, Impervious Products Co., New York City.

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I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

Miscellaneous Construction News

Post Office, Stamford, Conn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Brick, stone and terra cotta, fireproof, 1 story, 120x125 feet, tile roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing, safety treads. Owner taking bids due November 4th. The following are figuring: Wells Construction Company, Witherspoon Building; H. H. Wehmeyer, 1004 West Lehigh avenue; Chas. McCaul Company, 1713 Sansom street; J. H. Jordan, Thirty-first and Oxford streets; F. L. Hoover & Sons, 1023 Cherry street; J. E. & A. L. Pennock, Land Title Building; Edw. Atkins, 249 South Twenty-fourth street, and D. T. McCarthy, 411 Walnut street, all of Philadelphia, Pa.

Post Office, Danbury, Conn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Washington, D. C. Brick, fireproof, 2 stories, 87x127 feet, composition roof, steam heating, electric lighting, metal lath, dampproofing, safety treads. Owner taking bids due November 4th. The following are figuring: D. T. McCarthy, 411 Walnut street; J. E. & A. L. Pennock, Land Title Building; Chas. McCaul Company, 1713 Sansom street; Edw. Atkins, 249 South Twenty-fourth street; H. H. Wehmeyer, 1004 West Lehigh avenue; J. H. Jordan, Thirty-first and Oxford streets, and Wells Construction Company, Witherspoon Building, all of Philadelphia, Pa.

Residence, Orange City, Fla. \$4,000. Architect, M. B. Bean, Lansdale, Pa. Owner, W. D. Heebner, Lansdale, Pa. Frame and stucco, 2 stories, 30x35 feet, shingle roof, electric lighting, metal lath. Plans in progress.

Residences (3), Wilmington, Del. \$10,500. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Morris Binder, Third and King streets, Wilmington, Del. Brick, 2½ stories, 23x30 feet and 18x45 feet, slag, slate and tin roofs, steam heating, gas and electric lighting. Plans completed. Architect will take bids in a few days.

Theatre (alts.), Wilmington, Del. \$5,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, Avenue Amusement Company, Delaware avenue and Tatnall street, Wilmington, Del. Brick, 1 story. Consists of new flooring, decorating, etc. Architect taking bids.

Miscellaneous Contracts Awarded

Dormitories (2), Ithaca, N. Y. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owner, Cornell University, care of E. L. Williams, Ithaca, N. Y. Stone and brick, 3 stories, 50x157 feet, 60x135 feet, slate and tile roof, steam heating, electric lighting, asphalt floors, metal lath, waterproofing, metal sash and frames, safety treads. Contract awarded to Matthews Construction Company, Princeton, N. J.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Armstrong & Wiley (O), 312 Penn Square Building. Cost, \$86,100. Forty-one dwellings, brick, 2 stories, 15x30 feet, Medary and Ogontz avenue.

F. H. Thole (O), Penn Square Building. Cot, \$7,000. Garage, brick, 1 tory, 46x110 feet, Fifty-eighth and Hoffman streets.

F. R. Cope (O), Wasington Lane and Germantown avenue. W. John Stevens (C), Wyncote, Pa. Cost, \$5,000. Residence, stone, 3 stories, 30x34 feet, Chew street and German-town avenue.

J. R. McCarvey (O), 4802 Baltimore avenue. Wm. Brill (C), Media, Pa. Cost, \$5,500. Dwelling, stone, 2 stories, 41x21 feet, Orthodox and Pilling streets.

G. Goldstein (O), Sixth and Jackson streets. Cost, \$2,000. Residence, brick, 2 stories, 35x24 feet, Fox and Lippincott streets. Cost, \$3,000. Store and residence. Cost, \$10,800. Six dwellings.

W. H. Fisher (O), 3621 North Fifth street. Cost, \$33,000. Twenty-two dwellings, brick, 2 stories, 15x24 feet, Franklin and Cayuga streets. Cost, \$1,000. One dwelling.

Delta Tau Delta (O), 3535 Locust street. H. H. Burrell (C), 1204 Chancellor street. Cost, \$25,000. Fraternity, brick, 3 stories, 35x38 feet, 3535 Locust street.

John Sibbald (O), Fox Chase, Pa. (Jos. Ashby (C), Fox Chase, Pa. Cost, \$4,000.

Dwelling, brick, 2 stories, Oxford and B streets.

Walsh & Naulty (O), Fourth and Pine streets. Louis Cohen (C), 417 Christian streets. Cost, \$3,200. Two dwellings, brick, 2 stories, 16x30 feet, 204-206 Stamfer street.

Hess-Bright Manufacturing Company (O), Frant and Erie avenue. Harrison C. Rea Company (C), 1027 Wood street. Cost, \$35,000. Manufacturing, brick, 2 stories, 38x200 feet, Second and Erie avenue.

F. J. Blatz (O), 4923 North Lawrence street. Cost, \$5,200. Two dwellings, brick, 2 stories, 16x30 feet, Second street and Boulevard.

Wm. Furlong (O), Adams, Crescentville, Pa. Cost, \$2,500. One dwelling, stone, 3 stories, 16x42 feet, Sentmer and Reach streets.

Wissinoming Real Estate Company (O). M. E. Rodgers (C), 7732 Cottage street. Cost, \$10,000. Four dwellings, stone, 2 stories, 16x36 feet, 3207 Benner street.

W. E. Storck (O), 7326 Second street Pike. Cost, \$3,600. Two dwellings, brick, 2 stories, 16x40 feet, Stanwood and D streets.

H. H. Bonnell (O), Land Title Building. Pringle Borthwick (C), 8018 Gerfantown avenue. Cost, \$5,000. Dwelling, stone, 2 stories, 31x35 feet, Mermaid and Hillside Drive.

Jacob Korman (O), 600 East Wensley street. Cost, \$15,000. Ten dwellings, brick, 2 stories, 14x30 feet, Ontario and Melvale avenue.

Alterations and Additions

H. Heald (O), 4217 Baltimore avenue. J. P. Thompson (C), Real Estate Trust Building. Cost, \$1,000. Residence, 4217 Baltimore avenue.

Reiger-Getz Brewing Company (O), German-town avenue and Oxford street. P. Haibach Cont. Company (C), Twenty-sixth and Thompson streets. Cost, \$1,200. Shed, German-town avenue and Oxford streets.

Fred Meissner (O), 4844 Melrose street. John Kirby (C), Croydon, Pa. Cost, \$3,000. Dwelling and store, 1677 Orthodox street.

Mrs. A. M. Stopp (O), Allentown, Pa. J. P. Wood Manufacturing Company (C), 239 North Fourth street. Cost, \$1,050. Residence, 2106 Walnut street.

Mrs. A. S. Tomlinson (O), Bustleton Pike. \$1,050. Barn, Bustleton Pike.

J. Speed (O), 2743 Howard street. Cost, \$1,000. Stable, 2742 Hope street.

American Ice Company (O), Sixth and Arch streets. Herman Voigt (C), 1251 North Twenty-eighth street. Cost, \$1,250. Ice Plant, Paud and Meadow streets.

Philadelphia & Reading Railway Company (O), Twelfth and Market streets. C. P. Bower (C), Nineteenth and Cortland streets. Cost, \$150,000. Coal Bunkers, Seventeenth and Callowhill streets.

E. B. Budd Manufacturing Company (O), Twenty-fourth and Hunting Park avenue. Cost, \$1,000. Manufacturing building.

M. Ehakinsian (O), 20 South Redfield street. A. M. Mahjashian (C), 126 South Sixtieth street. Cost, \$3,000. Store and dwelling, 640 South Sixtieth street.

H. C. Dahl (O), 231 South Eighth street. Cost, \$1,800. Warehouse, 125-127 South Water street.

J. J. Rabinovitz (O), 527 Market street.

Cost, \$3,000. Manufacturing, 53 and 55 North Third street.

S. Nussloam (O), 210 Greenwich street. H. Rabo (C), 808 Snyder avenue. Cost, \$1,200. Dwelling, 210 Greenwich street.

D. M. Hess Estate (O), 904 Walnut street. Harry Drake (C), 3139 Frankford avenue. Cost, \$1,200. Store and dwelling, 1434 North Second street.

St. Joseph's Home (O), 700 Spruce street. T. J. Carberry (C), 1215 Filbert street. Cost, \$1,475. Home, 700 Spruce street.

J. J. Jacob (O), 1007 Latona street. A. Schmid (C), 2449 North Hancock street. Cost, \$1,300. Dwelling, 1007 Latona street.

L. Formosa (O), Fern Rock, Pa. A. J. Heckman (C), Edge Hill, Pa. Cost, \$1,300. Dwelling, Marvine and Champlost avenue.

J. Foster (O), 1923 Welsh Road. E. Chase (C), Welsh Road. Cost \$1,200. Dwelling, 1923 Welsh Road.

A. H. Miller (O), Lansdowne, Pa. Miller & England Company (C), 1124 Washington avenue. Cost, \$1,250. Store and dwelling, Twenty-fourth and Parrish streets.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

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INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 26, 1914.—Sealed proposals will be received at this office until 3 P. M., November 16, 1914, and then opened, for new clock, etc., for present tower of the U. S. Post Office and Court House, Danville, Va., in accordance with the drawing and specification, copies of which may be obtained at this office. O. Wenderoth, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 27, 1914.—Sealed proposals will be opened in this office at 3 P. M., December 17, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of two-story and basement stone, terra cotta, and brick-faced building of 6,800 square feet ground area, fireproof construction, composition roof, for the United States post office at Glens Falls, N. Y. Drawings and specifications may be obtained from the Custodian at Glens Falls, N. Y., or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after November 7, 1914. O. Wenderoth, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Oct. 31, 1914.—Sealed proposals will be received at this office until 3 P. M. Dec. 2, 1914, and then opened, for coal-handling apparatus, etc., in the United States Mint at Philadelphia, Pa., in accordance with drawing and specification, copies of which may be had at this office or at the office of the custodian, United States Mint, Philadelphia, Pa., in the discretion of the Supervising Architect, O. Wenderoth, Supervising Architect.

TRADE NEWS AND GOSSIP.

**Announcement has been made by the Builders Steel Products Co. of the removal of their offices, factory and warehouse for the manufacture of "Bilco" fireproofing materials to 131-133 South Twenty-fourth street, Philadelphia. They are now prepared to supply a complete line of "Bilco" and "Herringbone" metal lath, concrete reinforcements, steel casement windows, wall ties, wall plugs, staples, tie wire, crimped furring, road culverts and corner bead of their own manufacture.

A complete line of mine, mill, railroad and general supplies, such as wheelbarrows, picks, shovels, concrete-mixers, hose, rubber boots, etc., will also be carried.

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Irving Dillon. Editor

PHILADELPHIA, PA., NOVEMBER 4, 1914.

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Editorial Comment

If everybody you meet tells you you are looking bad, it won't be long before you'll be ill enough to need the attention of a doctor.

So it goes with business. If everybody persists in saying that business is bad, business will just naturally get bad, and the country, normally prosperous, economically sound and affected by conditions abroad sympathetically, if at all, will talk itself into a depression before anybody has time to realize what the trouble is.

If everybody will just stop talking war for a little while, pay strict attention to business and make it a point to meet his obligations just as if nothing resembling a war had ever happened, you'll find business about as good as usual and the country at large but slightly affected by the tremendous squabble abroad. If, in place of indulging in gloomy prophecy, the average manufacturer would devote his leisure time to perfecting an organization with which to handle the new trade which will flow to this country as a result of the inability of commercial Europe to attend to its business while engaged in shooting up its neighbors, conditions would speedily adjust themselves. It won't do to wait, as some of our business people are suggesting, until the war is over. The big commercial nations of the Old World won't be broken up in this thing half as badly as sentimental folks seem to think. These big nations have, too, extraordinary recuperative powers. Within six months after peace has been declared some of these nations will be doing business as methodically and as energetically as if nothing had ever happened.

Make no mistake about this fact. History has a habit of repeating itself. Just as France recovered after '70, and Spain after her brush with Uncle Sam, so will Germany and England after the present conflict. Uncle Sam's opportunity is now! The American manufacturer, instead of setting down and moping over imaginary difficulties growing out of the strife abroad, should be busy planning ways and means to grab up the new business waiting for him in South America and elsewhere. It is just as well to remember that there is no real depression. President Wilson is right in describing it as "psychological." Why a war, 3,000 miles or more away, should interfere with business here in the United States presents a problem too deep for the soundings of ordinary commercial common sense.

The moral of all this is to quit talking war and get down to brass tacks. There's lots of good business this year and every other year for the man who has something good to sell, knows how to sell it and keeps after the trade. Business will never be right for the fellow who mopes and goes half way on the

road to meet trouble. Hustle, muscle and grit is still the winning combination.

* * *

F. W. Fitzpatrick, of Washington, D. C., writing to the "Architect and Engineer," of San Francisco, says he has noticed in his capacity as an architect that whenever church work becomes plentiful business conditions begin to border on the panicky.

Mr. Fitzpatrick doesn't undertake to say why this is so; indeed, he admits that he is at loss to account for it; but that it is so he claims to be ready to vouch.

"One thing that convinces me that times are hard (if I were not absolutely certain already)," writes Mr. Fitzpatrick, "is the number of churches I have to do. In 1907 and the several panic periods—about seven years apart, that preceded it—I was amazed at the number of churches and Masonic Temples and charitable institutions that were put up. Peculiar, isn't it? One would think that in periods of depression subscriptions to churches and such would be the first to be lopped off, and I can't offer any reason for its not being so, but the fact is there. In 1907 there were few, mighty few, business structures or State buildings or other big work going on, but of churches there were legion.

"To-day it's the same story, churches and more of them, but with the addition of banks. More banks have passed through my hands in the past few months than in as many years before. There's a regular epidemic of little banks, institutions that have done business, a good business, for years in old tumble-down shacks, suddenly perking up and wanting to put on front in a new, modern (and generally classic—ye gods!) building on the best corner in town.

"I used to think that perhaps it just happened so, merely a coincidence that I was having a run of churches and banks, as at some other time I might have a period of court houses and office buildings, but the building reports show that there really is an unusual 'boom' in churches. To-day there are under contract over \$42,000,000 of churches in the country, \$6,400,000 in New York alone!"

It is possible to account for the churches on the old monastic theory that "empty bellies make for pious minds," but how, pray, shall we account for the banks? We have always believed one of the most vital needs of the banking business to be an active market.

* * *

The man who wants to build and delays starting work "because of the war abroad," is shortsighted. Labor is now easier than it has been for many years. Material is cheap, sub-contractors are hungry for work and ready to bid to the bone to land it, and good mechanics are plentiful and easily secured.

As a matter of fact, building may be done for less money, everything considered, just now, than has been the case for many years. If you want to build, dear reader, go right ahead and build. Don't be afraid of the Germans. The Germans won't steal your house, should you build one, won't burn it and won't knock it down. In fact, the Germans are likely to be kept so busy in the neighborhood of the Aisne within the next month or two that lesser communities may rest entirely safe. Germany is so very busy that she is likely to devote her activities to the home section for some months, at least, to come.

* * *

A manufacturer who was approached the other day has the right idea. Advised to postpone his advertising until the present "psychological depression" is passed this manufacturer, one of the most successful and resourceful in the trade, observed:

"No. If building operations are quiet now, that means that architects, engineers and contractors are not so busy and have more time to read and digest what I say to them in my ads. When they get busy again, they'll have my information in their minds."

* * *

Sound dope, that.

Dull times are good seasons for advertising in most every line of trade, because it is usually in the dull season that the man who does the buying has the leisure to read his trade papers as he would like. In the busy season the trade paper is skimmed over and cast aside. In the dull seasons it's read, read carefully from cover to cover. Consequently, it is the dull season advertising that "gets over the footlights." Try it and be convinced. A practical test is the best line of argument.

SHOULD SPECIFICATIONS SPECIFY

By LEE ULLERY.

(Paper read before the Society of Constructors of Federal Buildings at Washington, D. C.)

Specifications should be explicit, and state exactly what is to be done, so that bidders may know what to expect, and therefore they will have no grounds for complaint if required to perform the work accordingly.

If specifications are not definite, or not to be followed without deviation, no bidder can form an estimate as to what may be exacted, and it will be impossible to obtain bids from competent, reliable contractors. No desirable contractor will bid on work, the extent of which is unknown, and who must depend upon the notions and aesthetic fancy of the superintendent who may happen to be in charge of the work.

Contractors are unwilling to perform more work than is specifically required, or to furnish better material than called for. We find many instances of the efforts of contractors and material men trying to misconstrue the specifications, letters of acceptance, or the letters of approval of samples, as well as the drawing requirements, so it is necessary to be specific. Illustrating the point, I may cite a recent experience. Relative to the approval of samples of flooring, where the specification required same to be one and one-fourth inch thick, a sample one and one-eighth inch thick was approved. The material men claimed the approval of the sample created a modification of the requirement, but I pointed out that the letter advising of the approval stated the approval was as to quality, and that the dimensions of the material furnished must comply with the specification.

We cannot justly censure contractors and material men for trying to evade items of expense that are not clearly called for, and

where the requirements are that the work shall be executed in accordance with the drawings and specification, without deviation therefrom. We cannot extend any favors to a contractor. How can we expect any gratuities from him?

Contractors frequently tell us they cannot secure the kind of materials called for and offer to substitute something else, which may be fully as good, but we cannot permit the substitution under our instructions, and it is not surprising that contractors refuse to furnish what is not specifically called for, when we want a betterment.

I once called a draftsman's attention to the fact that his drawings did not indicate what framing should be placed beneath a stair platform in a building for which I was writing specification, and I advised him to indicate on the drawing the framing that would be required, but he told me it was not necessary to go into detail to that extent. He said, "No contractor will construct the stairs without placing suitable framing." But we do not want to depend upon the contractor for substantial supports for stairs, or other construction. True, the shop drawings would have to be prepared by the contractor, and approved in the Supervising Architect's office, but should not the contractor and material men know before making their bid what is required, approximately, at least, to meet the approval of the structural engineers?

I know a contractor who submitted a proposal for fireproofing the floors of a certain building after his original bid had been opened and found to be the lowest received. He

stated that he considered the beams and girders already provided would not have to be made more than a small per cent. heavier, and that additional steel beams would be added to correspond with construction of other fireproof floors. He complained continually during the construction of the work that the increase had been unreasonable; that the beams and girders substituted for those originally shown were fully fifty per cent. heavier, and that the new beams required were much heavier than beams he had placed in similar floors in other buildings. Such changes should not be made in that way, as expense is suffered that was not contemplated by the contractor.

Some years ago a contractor failed to include in his original bid certain items of work that were required. These items were clearly shown but overlooked by him in preparing his bid. Afterward a proposal for an additional item was accepted. The next day it was discovered that an error had been made in considering the bid and an effort was made to revoke the acceptance of the bid. The contractor stated that it was too late to revoke the acceptance, as he had ordered his material. "But," said the official, "your bid was a thousand dollars too high." "Well," said the contractor, "I am very sorry, but I am only sorry because it wasn't ten thousand dollars too high."

This shows how some of the contractors feel about these matters. They cannot receive any favors, but have to stand the loss due to their own errors. They are, of course, not willing to refund when mistakes are made by the other party to the contract. When the specification and drawings are clear and explicit as to the requirements, it is for the contractor to inform himself, before he submits his bid, of all the conditions. The opportunity should always be given him to so inform himself by specific drawings and specifications.

Don't expect outsiders to give you a big rating on a one-inch space.

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COMPETITION FOR FIREPLACE HEATER DESIGN.

The American Gas Institute and the National Commercial Gas Association have authorized payment of a prize of \$150 for the best design of a fireplace heater, burning gas.

There are several types of heaters on the market which are fairly satisfactory from the standpoint of heat production, but do not meet the requirements from the standpoint of appearance. The committee wants a design of a heater that may be placed in the open fireplace of the library, living-room or dining-room of an artistically furnished dwelling, which will be appropriate for the purpose, and artistically consistent with the furnishings of the room. The appearance when unlighted, is of equal importance with the appearance when lighted, and in awarding the prize, these two features will be given equal prominence.

The award will be made by the committee on the recommendation of a jury composed of three members, an architect (to be nominated by the American Institute of Architects), a member of the American Gas Institute and a member of the National Commercial Gas Association.

The competition will close on March 1, 1915, at which time the designs must be in the hands of the Chairman of the Joint Committee, Mr. Wm. J. Serrill, 1401 Arch street, Philadelphia, Pa., who will supply any further information desired.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

TRANSPLANTED ARCHITECTURE

Some Ancient Materials in a New Assemblage Oversea

Comment has been made on the inaccuracy, not to say absurdity, of speaking of this that country house in the United States as "a charmingly successful example of Elizabethan architecture," or what not. The distinction which I have always maintained as most important and most essential to establish, is the distinction between an "example" of any given style of European architecture and an "adaptation."

Obviously, the adaptation is what is usually meant, and is what would usually be recognized to form the basis of any intelligent criticism of an American building designed in the spirit of any European style, or copied directly from any European building. As in most things, however, there are exceptions to the most carefully considered rules in matters of criticism, and improbable as it might seem that there should be an "example" of an Elizabethan English country house in these United States, such is nevertheless the interesting and unusual fact.

Mr. Arthur S. Vernay, the connoisseur, collector and dealer in English antiques, has recently caused to be built for himself an example of early English domestic architecture—not a fabric skilfully based by a scholarly architect upon elements of design peculiar to English architects, but a fabric ingeniously composed of actual pieces of actual old English country houses.

Exactly how much of the art of architecture has entered into this, and exactly how much the knowledge of the scholar and the ingenuity of the esthetic artificer, might form the object of a great deal of architectural analysis to fairly determine. The result, at any rate, we cannot hesitate to pronounce as presenting salient qualities of charm, sincerity and appropriateness—three prime factors in the success of any country house design.

To dispute the qualities of charm or interest in this unusual building is to dispute the charm of rare and ancient carved wood-work, of trusses and beams, that have staunchly supported the roofs of houses that stood in England long before King George had trouble with the American Colonists, the charm of actual and venerable half-timber work.

To dispute the sincerity of the whole is to ignore the studious thought and the loving care shown by the architects in their minutely careful assemblage of queer and varied materials from several different old houses in England, or questioning the collector's devotion to these priceless bits shown by Mr. Vernay in his desire to make them his own and a part of his personal abode, even though an ocean intervened to discourage such a desire.

To dispute the appropriateness of such a house as the abode of Mr. Vernay, is to im-

ply a possibility that a collector and fancier of furniture and woodwork of the antique English periods might be quite happy in an adapted Italian villa. Certainly such a house as this remarkable fabric of many ancient parts is not only an unusually sincere architectural expression, but a reflection as well.

It is an expression, in architectural terms, of the sort of dwelling which the owner believes to be the ideal, and is a reflection, also in architectural terms, of his tastes and interests.

The windows have been fitted throughout with specially made lead casements—indeed, one could hardly imagine the introduction of the commonplace American "double-hung sash."

This flavor of actual antiquity which makes itself felt in the exterior details of the house is equally in evidence in the interior, where beams, trusses and king-posts are used in their intended structural functions, and are all bits from ancient houses. The staircase in the hall, for example, is an early Seventeenth Century one found in Cirencester, and the old oak panelling in the living room is from a rectory outside Chichester, in Sussex. Furniture, of course, is authentically of the period, and interesting color and incident is furnished by a few precious porcelains, such as the two Ming figures and the yellow Khang-shi Imperial plate on the "lovely cupboard" in the living room.

From a standpoint purely architectural it is a little difficult to say just how much architecture enters into the building together with such a collection of odd fragments. Stanford White did a great deal of this sort of thing, and did it very effectively and successfully, and he was a great architect. Let us take the stand that this kind of work calls into play the highest order of architectural ingenuity, but not the highest order of architectural imagination. It is an undertaking to be attempted only by the architect who is a clever and resourceful craftsman—he must be apt and ingenious in his uses of such material as he has at hand. If a bit of railing is not long enough, he must adjust his design, and when the work is completed it must appear as though mantlepiece, panelling, ceiling and carved railings were not forced into unnatural uses, but had been always intended to fit their new arrangement. There should be nothing Procrustean in the mental make-up of the architect who essays to assemble antique fragments—he must handle them with infinite delicacy and flexibility if he is to handle them at all, and should remember that the proposition before him is not one in which he is called upon to display his powers of creative ability, but rather his architectural ingenuity. He

is not an author, nor even an interpreter, as he would be in a new rendering of an old theme, nor is he entirely an archaeologist, as he would be in a restoration. Let us say that the peculiar ability called into play in producing a consistent and pleasing whole made up of a variety of already created parts is closely akin to the ability which characterizes an editor.

That architects are both willing and able to address themselves so diligently and successfully to the solution of many and varied aspects of their work, and to present a finished fabric of the whole in so perfect a manner is a credit not only to those individuals or firms who have been engaged in such work,

but to architects and the architectural profession at large.

This, we have reason to feel, has always been taken as an index of taste in such manners, and of a culture which cannot be satisfied with the products of modernity. What, then, could be more appropriate, or present a more fitting and satisfying atmosphere for the abode of a collector of authentic old English houses—hallowed by time and tradition, and speaking with all the quaint diversity of its detail of an age when the hand of the craftsman caressed the materials he fashioned, and when men were artists for the love of art rather than from the necessity of a livelihood.—C. M. Price in "Arts and Decoration."

THE FUN OF BUILDING A HOUSE ON PAPER

A Newspaper Yarn By L. Clare Davis

The excavating has been done for my friend's new house and she says it is the most interesting hole-in-the-ground she ever saw.

This is the stage of the house-building game when you get a second crop of enthusiasm. The first lot has usually been exhausted on the plans. Such a lot of thought, energy, interest and enthusiasm as goes into plans! But what a lot of fun can be extracted from building houses on paper. In fact, that is where most of the fun comes in, for you can have most anything you want if the sheet of drawing paper is big enough, your imagination is in good trim and your pencil holds out.

It is only when the home-made plans are submitted to the cold, calculating eye of an architect or builder that the grim facts of life become apparent. You can't have six feet of windows in a space that is only four feet two inches wide, he says. On paper it looked as if you could. You can't have hardwood floors all over the house and have enough money left to build a nice big open fireplace. If you built the fireplace you couldn't buy coal enough to keep it warm. You can't have a nice convenient family stairway that parts its hair in the middle and from one convenient landing allows you to glide gracefully down into the reception hall if you are dressed for company, or to slip hastily up from the kitchen to take down your curl papers and dab on a little powder, when some one is waiting downstairs, without giving up half of the hall and half of the dining room to three or four dinky steps, or building an addition somewhere to let the steps back in out of the way.

Say what you like, an architect lacks imagination. He is always holding one down to inches and feet and such stuff as that. How can one be bothered to leave spaces in the right places for doors after using all one's gray matter trying to decide whether the

hand rail of the stairs shall be mahogany finish or ebony?

Building a house is a matter of several intermittent attacks. It breaks out with a rosy rash of enthusiasm, that rises into a high fever over plans, runs its course for six weeks or so, then subsides, only to come on as a relapse after many days.

The first week of bending over plans and laying out attractive little nooks and recesses and window seats it seems as if you would simply have to begin building to-morrow after noon at 3 o'clock. By the end of the fifth week there is a slump. Oh, shucks, building is too expensive! We don't want to build. Renting is cheaper. The plans are flung into a drawer. There is a decided nausea whenever sleeping porches, flues, plumbing, furnaces and so on are mentioned.

After a time the temperature rises again higher than ever. In the meantime every house within a radius of 750 miles has been glanced at or inspected for possible ideas or suggestions. Books with such attractive titles as, "Beautiful Homes for \$5,000," "Bungalows That Can Be Built for \$3,000," "Why Pay rent When You Can Own Your Own Home," "Beautiful Interiors and Artistic Exteriors," form the most fascinating literature there is.

Other people with the same disease running its course are the most interesting folks in the world to talk with. You almost hug them because they have run up against some of the wild snags that you have met. You fairly love them and yearn over them as they tell how they scrapped over whether the dining room should have French doors and white wood work or dark woodwork and just doors.

You hang on their utterances and break in with delighted exclamations of sympathetic misery as they tell how they had to give up nearly everything they had set their heads on in a house because it was going to cost

too much. So they just moved and that was nearly as exciting and devilish and nerve-racking as building a house. Ah, well, it is far better to have planned and not builded than never to have planned at all. With a lot, a set of plans and a dollar to start with, there is always a chance for the disease to break out again and get you to the hole-in-the-ground stage.—"San Francisco Architect & Engineer."

WAR AND ARCHITECTURE.

It is not generally considered that war comes within the province of an architectural publication, and yet, why not? asks the "Institute Journal." Save for the grim hand of ceaseless Time, what factor has contributed more to the destruction of much of the best that architecture has given toward the progress of mankind, than has war?

Architecture seeks to uplift and to ennoble. War seeks to destroy and to degrade. The two are mortal enemies.

For centuries architecture has sought to translate the aspirations of humanity into living records; to add the inspiration of beauty to the struggle of man to emerge from barbarism. At every turn in the road, war has risen to drench his path with blood and to barricade it with the sickening obstacles of needless human suffering and wanton waste. And now, when science has risen to her topmost heights—when the world's commerce and industry are so inextricably woven that all mankind must suffer—five great powers are again plunged into the vortex of murder and destruction!

How fortunate is the situation of the United States at the present moment! What an opportunity presents itself! Not merely to profit through broadening markets—not merely to gain money through supplying the demands of countries whose usual source of supply is suspended—not ignobly and greedily to absorb the profits of another's misfortune, but to prove to the world at large what irreparable disasters are to-day heaped upon a country, which seeks to settle by war those questions which never have been and never can be settled until blind passions are supplanted by reason.

In the meantime, let us hold ourselves above all prejudice and partisanship, pitying all, and reserving our judgment until it has been matured through a disclosure of all the mysterious forces which are not yet revealed to the common citizen. Let us look forward to the day when architecture may be called to the supreme task of raising the emblem of the world at peace.

In a circular issued by the R. I. B. A., announcing a recent meeting, the suggestion is made that the authorities be requested to avail of the services of architects with respect to military buildings erected during the war.

Commenting on this circular, "The Builder" states, in part, as follows:

"It is quite possible that if the authorities receive the aid of architects with respect to military buildings during the war they may

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come to the conclusion afterwards that there is some connection between efficiency and knowledge, and that, after all, buildings are more efficiently designed and constructed under architects than under the royal engineers. If so, we may reap in the future benefits from the services rendered in the present. The suggestion that architects should look after the work of those members of the profession who take their place on the firing line is also a good one, and will, we have no doubt, meet with an adequate response. But we believe the greatest good would come from carrying out the suggestion we have made that the local government board should be approached with the view of obtaining the acceleration of schemes already approved, and that they should give their sanction to new schemes of a utilitarian character with greater readiness than in more normal times."

THE TENTH INTERNATIONAL CONGRESS OF ARCHITECTS IN 1915.

Despite the unsettled conditions abroad, plans are being made for the Tenth International Congress of Architects, which will take place at Petrograd on the 18th to the 24th of May, 1915. The Congress will be held under the patronage of His Majesty, Emperor Nicholas II, with Her Highness the Grand Duchess Marie Pawlowna, President of the Imperial Academy of Beaux-Arts, as Honorary President.

The last Congress, held in Rome in 1911, decided that the Tenth Congress should take place in 1914, but, for various reasons, it was finally set for the date above given. All of the sections of the Permanent Committee of the International Congress are asked to at once undertake the organization of their respective sections. It is necessary to proceed with some celerity, by reason of the fact that in addition to the excursions and festivities which have been arranged, many serious sessions will be devoted to the discussion of the various topics assigned for that purpose, together with the reading of such reports as have been requested, or may later be offered.

In connection with the National Exposition of Russian Architecture, and the International Exhibition of Theater Architecture, which will be open at that time, there will be conferences devoted to the subject of Russian architecture, as well as to those plans, views and books related to the development of the architecture of the theater in all countries during the last fifty years, which will

form a part of the last-named exposition. The different sections of the Permanent Committee have been asked to constitute themselves as juries of admission, to deal with such exhibits of theater architecture as may be offered for the exposition.

This international exhibition will be inaugurated on the 1st of May, 1915 (American calendar); and will be held in the rooms of the Imperial Academy of Beaux Arts. German confreres, having built many theaters during the last few years, will exhibit a number of plans, methodically classed, according to the purpose for which they were built—opera, comedy or drama.

In connection with the subject of theater architecture, it has been thought that the occasion would also be an auspicious one for devoting some attention to motion picture theaters. There is no reason why architects should not evolve forms which are both artistic and perfectly adapted to the production of motion pictures, and it is certain that all offered solutions of this problem will be attentively studied.

As English has been admitted as one of the languages of the Congress, and as qualified interpreters and stenographers will be found at Petrograd, no English-speaking architect need fear any difficulty on that score, and the committee sincerely hopes that many members of the American Institute of Architects will come to Petrograd in 1915.

MARBLE AS A DIFFUSER OF LIGHT.

The "Electrical World" calls attention in the following article to the possibilities of marble as a diffuser of light in interiors:

"In the so-called 'marble light,' a recent production, translucent marble plates are employed as the diffusing substance instead of the usual white glass in illumination fittings. Marble plates of one-eighth inch to 25.32 inch thickness can be made translucent by a special grinding and impregnating process so that they are superior in translucency to white glass plates of normal thickness. Colored marble plates of this thickness give beautiful light effects which cannot be imitated at all by means of colored glass. On some of the German transatlantic steamers skylights are used consisting of colored marble plate illuminated by electric incandescent lamps. A pure white light is obtained, while any irritating effect is avoided. No difference could be found between marble and white glass as to translucency for ultra-violet rays.

The only difference between marble and white glass is that if the two media permit the same amount of light to pass through, marble absorbs the dark heat rays to a much greater degree than any other medium, and it is thought that this fact explains the beneficial physiological effect.

"Ever since the system of indirect lighting has been held in such favor, use has been made of suspended basins of alabaster, glass or porcelain, sheltering groups of incandescent electric bulbs. The employment of alabaster for this purpose was suggested by its natural translucence. In describing the English work we said that marble could be used for these indirect light basins and would give a better effect than alabaster, because of greater beauty in color and marking. Of course, all marble is not fitted for this purpose, because some of it is so dense and fine-grained as to be practically opaque, unless it can be so treated as to increase its translucence. Nearly all of the coarse-grained marbles are extremely translucent, and some of them are semi-transparent. Marble is much stronger than alabaster, and there would be little difficulty in turning it down sufficiently thin to permit the passage of light."

TOUCH OF GENIUS.

Sandy MacPherson started to build a small house of bricks. After the usual plan of bricklayers, he worked from the inside, and, as he had the material close beside him, the walls were rising fast when noon arrived, and with it his son Jock, who brought his father's dinner.

With honest pride in his eyes, Sandy looked at Jock over the wall on which he was engaged, and asked:

"Hoo d'ye think I'm gettin' on?"

"Famous, fether; but hoo dae ye get out? You've forgot the door."

One glance around showed Sandy that his son was right; but, looking kindly at him, he said:

"Man, Jock, you've got a gran' heid on ye! Ye'll be an architect yet, as sure's yer fether's a builder."

HOW ONE ARCHITECTURAL FIRM MEETS THE SLACK TIMES.

A well-known San Francisco architect, whose office turns out something more than a million dollars' worth of work annually, called his staff together the other day and announced that on account of the hard times and unsatisfactory state of the money market, he would cut all salaries, from chief draftsman to office boy, 30 per cent.

"If there is anyone here who objects to this reduction," concluded the architect, "he can have a week's pay and go."

It is needless to say none of them went.

How much better some such plan as this than the ruling practice of dismissing a good man altogether.

Ever try a "Want" ad. in The Guide?
Gets the goods every time.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Renovating.

Acolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
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Blue Print Paper.

Keystone Blue Paper Co., 910 Filbert st.,

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Builders' Specialties.

Builders Iron Works Co., 217 N. 15th st.,

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co., Penna. Bldg.,
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co.,
1713 Sansom st., Phila.

Door Hangers.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Drawing Materials.

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910 Filbert st., Phila.
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Warren-Knight Co., 136 N. 12th st., Phila.
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Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Fireproofing.

Payne & Scammell, Land Title Bldg., Phila.

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

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Floor Laying.

J. C. Moore Co., 35 S. 17th st., Phila.

Floor Planing.

J. C. Moore Co., 35 S. 17th st., Phila.

Floors and Floor Finishing.

J. C. Moore Co., 35 S. 17th st., Phila.

Furnaces and Ranges.

Henry M. Miller, 46-48-50 N. 2nd st.,
J. Reynolds & Son, 1615 Filbert st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hangers (Wall and Joist).

Builders Iron Works Co., 217 N. 15th st.,

Hardwood Floors.

J. C. Moore Co., 35 S. 17th st., Phila.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

The Fairbanks Co., 7th and Arch sts., Phila.

Mill Work.

O. M. Weber Co., North Wales, Pa.

Mortar Colors.

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Painting.

R. J. Carrick, 2016 Ranstead St., Phila.

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Parquetry Floors.

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Vol. XXIX., No. 45.

PHILADELPHIA, WEDNESDAY, NOVEMBER 11, 1914.

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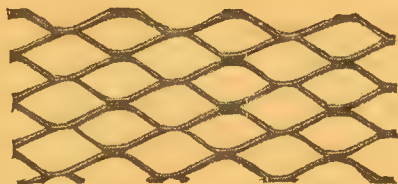
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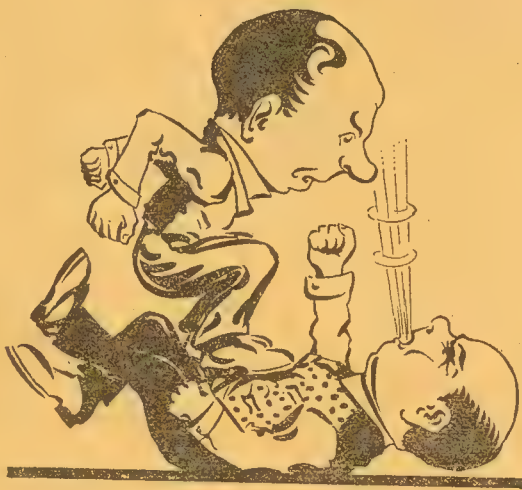
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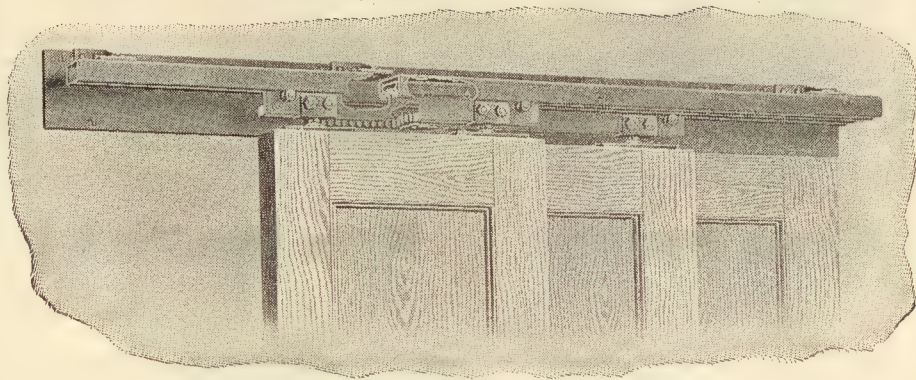
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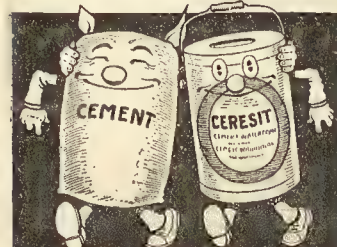


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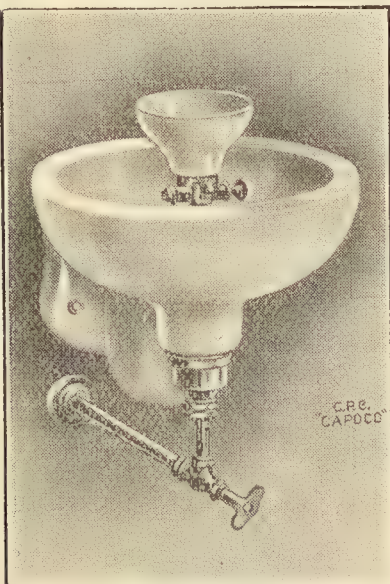


Plate 203 D
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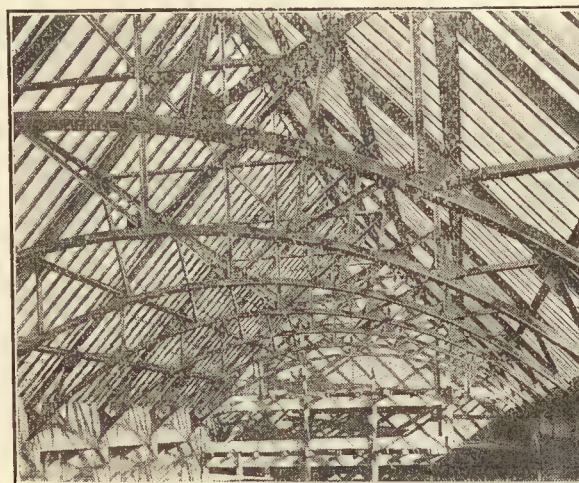
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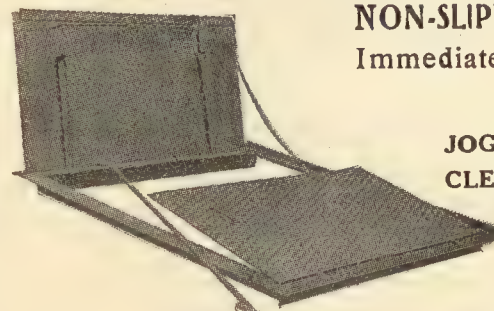
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Vol. XXIX., No. 45.

PHILADELPHIA, WEDNESDAY, NOVEMBER 11, 1914.

Less than One Year
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Police and Fire Stations (4) (alt. and add.), Philadelphia. Architect, Ed. A. Crane, City Hall, Philadelphia. Owner, Department of Public Safety, City Hall, Philadelphia. Brick. Consists of general alterations and repairs. Lowest bid submitted by E. O. Durell, 1713 North Twenty-fourth street, Philadelphia, on the Twentieth and Berks street Station, \$1,675. Lowest bid submitted by F. S. Markland, 1120 Vine street, Philadelphia, on the Highland avenue Station, \$2,370. Lowest bid submitted by W. W. Anstine Company, 1214 Filbert street, Philadelphia, on the Tacony station, \$1,238. Lowest bid submitted by T. P. Fisher, 829 East Cheltenham avenue, Philadelphia, on the R. Cheltenham avenue Station, \$1,012.

Store and Apartments (alt. and add.), Tenth and Cumberland streets, Philadelphia. Architect, P. E. Paist, 1613 Chestnut street, Philadelphia. Owner, E. N. Ross, City Hall, Philadelphia. Brick, 3 stories, slag roof, steam heating, electric light. Architect has received bids.

Alterations for Apartments, 1737 Mt. Vernon streets, Philadelphia. Architect, H. L. Reinhold, 1309 Walnut street, Philadelphia. Owner, Morris Realty Co., care Edw. Hutchinson, 122 South Thirteenth street, Philadelphia. Brick, 3 stories, slag roof, electric lighting (heating, separate bids). Architect has received bids.

Garage, Wayne avenue and Washington Lane, Germantown. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, James R. Crellin, 3213 Turner street, Philadelphia. Brick and concrete, 3 stories, 56x92 feet, slag roof, metal lath, gasoline storage (heating and lighting, reserved). Revised plans in progress.

Stores and Apartments (3), Frankford, Philadelphia. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 60x70 feet, slag roof, steam heating, electric lighting. Plans in progress.

Theatre, Germantown avenue and Venango street, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner's name withheld. Brick and terra cotta, 1 story, slag roof, steam heating, elec-

tric lighting, metal lath. Plans in progress.

Stable and Garage, 5244 Germantown avenue, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Manheim Laundry Company, care Wm. James, on premises. Brick and concrete, 2 stories, 52x57 feet, slag roof (heating, reserved). (electric lighting, reserved). Owners taking bids due November 13th. The following are figuring: Samuel Harting, 20 East Johnson street; Geo. C. Fossel, 128 East Cheltenham avenue; W. J. Gruhler, 219 High street; Barclay White Company, Perry Building; Burd P. Evans Company, Thirteenth and Wallace streets; James G. Doak & Co., Crozer Building; Bailey-Lush Co., Abbott Building, all of Philadelphia, are figuring.

Synagogue, Fifty-eighth and Walnut streets, Philadelphia. \$50,000. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Congregational Beth-El, care S. M. Strauss, 4932 Locust street. Stone, 2 stories, 75x90 feet, tile roof (heating and lighting, reserved), metal lath, waterproofing. Architect taking bids due November 23rd. The following are figuring: A. L. Fretz & Sons, 1222 Chancellor street; Wm. R. Dougherty, 1610 Sansom street; Chas. McCaul Company, 1713 Sansom street; A. Raymond Raff, 1635 Thompson street; Freund-Seidenbach Company, Bulletin Building; E. J. Kreitzburg, 1345 Arch street; Jas. G. Doak & Company, Crozer Building; Smith-Hardican Company, 1606 Cherry street; Lam Building Company, 1001 Wood street; Stacy Reeves & Sons, 2011 Market street, all of Philadelphia.

Picture Theatre, Sixty-second and Woodland avenue, Philadelphia. Architect, H. M. Pedrick, Post Office Building, Darby, Pa. Owner, Chas. E. Fletcher, care W. Camac, Sixty-second and Woodland avenue, Philadelphia. Brick and terra cotta, 1 story, 50x125 feet, wing 15x85 feet, slag roof, steam heating, electric lighting. Plans in progress.

Market House, Girard avenue and Marshall street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner's name withheld. Brick and concrete, 2 stories, 25x178 feet, slag roof, steam heating,

electric lighting, metal lath, waterproofing and dampproofing. Plans in progress.

Offices (alt.), 1418 Walnut street, Philadelphia. Architect, Horace Trumbauer, Land Title Building. Owners, George A. Huhn & Sons, Land Title Building. Consists of remodeling first floor for brokers' offices. Electric lighting, banking fixtures, etc. Plans in progress. Architect will take bids in ten days.

Garage, Upsal street, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building. Owner, John A. Seeds, 607 West Upsal street. Stone, 1 story, 23x24 feet, slate roof, electric lighting, hot water heating. Plans in progress.

Residence and Garage, Germantown, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Chas. F. Jenkins, Seventh and Washington Square. Brick, 2½ stories. Plans in progress. Too early for details.

Warehouse, Kensington avenue and Hilton street, Philadelphia. Architect, Charles W. Denny, Hale Building. Owner, Charles Devlin, on premises. Brick, 2 stories, 40x72 feet, slag roof, steam heat, electric light. Plans in progress.

Residences (10), Queen and Wakefield streets, Philadelphia. Architect, private plans. Owner, W. C. Wetherstine, 126 East Upsal street. Stone, 2 stories, 22x84 feet, slate or slag roof, hot water heating, electric lighting, oak floors. Plans in progress. Owner will take sub-bids.

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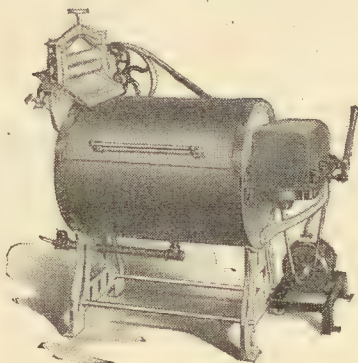
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manse, Tenth and Kimball streets, Philadelphia. Architects, Chas. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Italian Presbyterian Church, care Rev. A. Stasion, on premises. Brick and stone, 2 stories, 32x32 feet, slag roof, steam heating, electric lighting. Contract awarded to Harrison C. Rea, Company, 1027 Wood street.

Factory Building, 234 Lombard street, Philadelphia. Architect, private plans. Owner, Lifter Ice Cream Company, on premises. Brick and concrete, 3 stories, 78x141 feet, slag roof, electric lighting, cement floors, waterproofing, rolling steel doors, kalamein doors. Contract awarded to Harrison C. Rea Company, 1027 Wood street, Philadelphia.

Flat House, Twentieth and Ontario streets,

Philadelphia. \$15,000. Architects, Durham Brothers, Heed Building, Philadelphia. Owner, C. Bradford Sigler, 2263 North Twenty-first street, Philadelphia. Brick and stucco, 4 stories, 31x102 feet, slag roof, vapor heating, electric lighting, hardwood floors, tile work, electric elevator. Contract awarded to E. J. Kelly, Twentieth and Ontario streets, who is taking sub-bids on all lines.

Apartment House, 1330-1332 Pine street, Philadelphia. \$51,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Yarrow & Van Pelt, Morris Building, Philadelphia. Brick, fireproof, 6 stories, 32x77 feet, slag roof, electric light. Contract awarded to F. A. Havens & Company, 845 North Nineteenth street, Philadelphia.

PENNSYLVANIA Construction News

Residence, Lansdowne, Pa. Architect, H. M. Pedrick, Darby, Pa. Owner W. Z. Edwards, Darby, Pa. Stone and plaster, 2½ stories, 27x38 feet, wing 13x13 feet, shingle roof, hot water heating, electric lighting. Architect taking bids due November 11th. The following are figuring: Stackhouse & Smith, 3826 Hamilton street, Philadelphia; Julius Nelson, Darby, Pa.; J. L. Loudon, Lansdowne, Pa.; T. W. Riley, Lansdowne, Pa.; J. K. Ingram, Lansdowne, Pa.; P. Hausmann, Colwyn, Pa.

Church, Marysville, Pa., \$10,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Louis Lithuanian R. C.

Church, Marysville, Pa. Frame, 1 story. 40x90 feet, Carey's roof, steam heating, electric lighting. Plans in progress.

Sunday School, Allentown, Pa. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. James' Lutheran Church, Allentown, Pa. Stone and brick, 2½ stories, 52x70 feet, slate and tin roof, steam heating, electric lighting. Plans in progress.

Church, Reading, Pa., \$18,000. Architect, A. F. Smith, 1029 Penn street, Reading, Pa. Owner, Christ Evangelical Church, Rev. J. L. Tonkin, 1039 Robeson street, Reading, Pa. Stone, 1 story, 50x60 feet, slate roof, steam heating, electric lighting. Plans in progress.

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concrete or any good foundation.

Residence, Wyomissing, Pa., \$20,000. Architect, A. F. Smith, 1029 Penn street, Reading, Pa. Owner, C. A. Mills, Reading, Pa. Stone and brick, 2 stories, 74x54 feet, shingle roof, steam heating, gas and electric fixtures, hardwood floors, tile work, waterproofing and dampproofing. Plans in progress.

Residence, Cynwyd, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, L. Stanley King, Cynwyd, Pa. Stone and frame, 2½ stories, 24x56 feet, wing 16x17 feet, shingle roof, hot water heating, electric lighting, oak floors. Architects taking bids, due November 12th. The following are figuring: A. C. Sassman, Cynwyd, Pa.; P. J. Lawler, Bala, Pa.; Mowrer Bros., Merion, Pa.; Alfred James, Bala; A. L. Fretz & Sons, 1222 Chancellor street; J. P. Thompson, Real Estate Trust Building; J. E. Kearney, 327 North Sixty-third street; E. J. Hedden, Penn Square Building, all of Philadelphia.

Stable and Garage, Villanova, Pa. Architects, Boyd, Abel & Coneys, Fifteenth and Walnut streets, Philadelphia. Owner's name withheld. Stone and terra cotta, 1½ stories; slate roof, 75x120 feet, hot water heating, electric lighting, gasoline storage. Architects taking revised bids. J. D. Lingle, Wayne, Pa.; J. Morris Rossiter, Wayne, Pa., and J. Myers & Sons Co., Witherspoon Building, Philadelphia, are figuring.

School, Morton, Pa. Architect, Lewis F. J. Moore, Media, Pa. Owners, Board of Education, Morton, Pa. Brick and plaster, 1 story, 70x70 feet, shingle roof, steam heating, electric lighting. Owners have received bids.

Club House (alt. and add.), Shenandoah, Pa. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, B. P. O. E., No. 945, Thomas Done, chairman Building Committee, Shenandoah, Pa. Brick, 2 stories, 30x90 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, swimming pool, metal lockers. Plans in progress.

Twin Residence, Easton, Pa., \$4,000. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, C. L. Bachman, 30 South Third street, Easton, Pa. Brick, 2½ stories, 32x40 feet, slate roof, vapor heating, gas and electric lighting. Plans in progress.

Residence, Easton, Pa., \$5,000. Architect, J. J. Weitzenfeld, Easton, National Bank Building, Easton, Pa. Owner, Harlan Woehrle, 619 Summit avenue, Easton, Pa. Stone and

shingle, 2½ stories, 38x33 feet, slate roof, vapor heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Store and Apartments (alt. and add.), Easton, Pa. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, W. Bricker, 201 South Third street, Easton, Pa. Brick and steel, 4 stories, 125x23 feet, slag roof, steam heating, gas and electric lighting, tile work. Plans in progress.

Residence and Garage, Elkins Park, Pa. Architects, Stackhouse & Street, Drexel Building, Philadelphia. Owner, S. W. Lowenstein, Oak Lane, Philadelphia. Hollow tile and plaster, 2½ stories, 30x60 feet, slate roof, hot water heating, electric lighting, oak floors, canvas roof. Plans in progress. Bids in ten days.

Barn, Glenside, Pa. Architect, Spencer Roberts, Weightman Building, Philadelphia. Owner, W. E. Caveney, Glenside, Pa. Stone, 2 stories, 26x45 feet, shingle roof. Plans in progress.

Residence, Ardmore, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Samuel McKeenan, 1488 North Fifty-third street, Philadelphia. Frame and plaster, 2½ stories, 34x40 feet, shingle roof, hot water heating, electric lighting. Owner taking sub-bids.

Garage, Tamaqua, Pa. Architect, Benj. R. Stevens, 1727 Filbert street, Philadelphia. Owner, S. G. Seligman, Tamaqua, Pa. Concrete, 1 story, 25x32 feet, asbestos roof, steam heating, electric lighting. Plans in progress.

Residence, Rose Valley, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, L. Stauffer Oliver, Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 80x61 feet, tile and composition roof, composition floors (heating and lighting reserved), waterproofing. Architects have received revised bids.

Abattoir (add.), Reading, Pa. Architect, P. A. Kley, 1111 Walnut street, Philadelphia. Owners, Reading Abattoir Co., 216 Penn street, Reading, Pa. Brick, steel and concrete, 3 stories, 30x120 feet, slag roof, electric lighting. Architect taking bids, due November 14th. The following are figuring: A. Raymond Raff, 1635 Thompson street, Philadelphia; Fink & Seidle, Colonial Trust Building; Daniel H. Hunter, 820 North Eleventh street; George E. Seyfert, H. E. Ahrens, all of Reading, Pa.

PENNSYLVANIA

Contracts Awarded

Bridge, Mill Creek, south of Berne, Pa. Architect, W. Hunter, Twelfth and Market streets, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Twelfth and Market streets, Philadelphia. Concrete and steel. Contract awarded to P. J. Campion, Mahanoy City, Pa.

High School, Pittsburgh, Pa. Architect, Ed. Stotz, 213 Sixth avenue, Pittsburgh, Pa. Owners, Board of Education, care of George W. Gerwig, Secretary, Fulton Building, Pittsburgh, Pa. Brick, steel and concrete, 4 stories, basement, 300x400 feet, slag roof, steam

heating, electric lighting, cement floors, metal lath, waterproofing and dampproofing, metal sash and frames, enamel brick, safety treads. Lowest bid submitted by Thomas Reilly, 1616 Thompson street, Philadelphia, \$681,226.

Double Residence, Allentown, Pa., \$8,000. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, H. Haas, 312 North Jefferson street, Allentown. Hollow tile and stucco, 2½ stories, 18x44 feet, slate roof, vapor heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Edward F. Peters, Allentown, Pa.

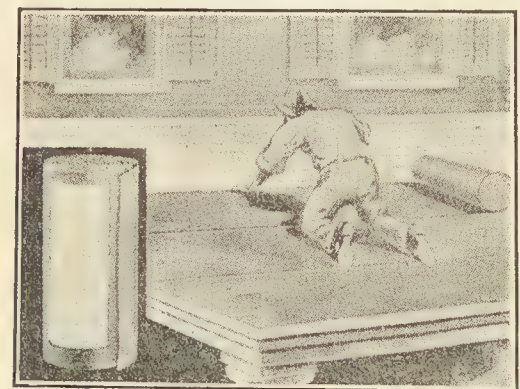
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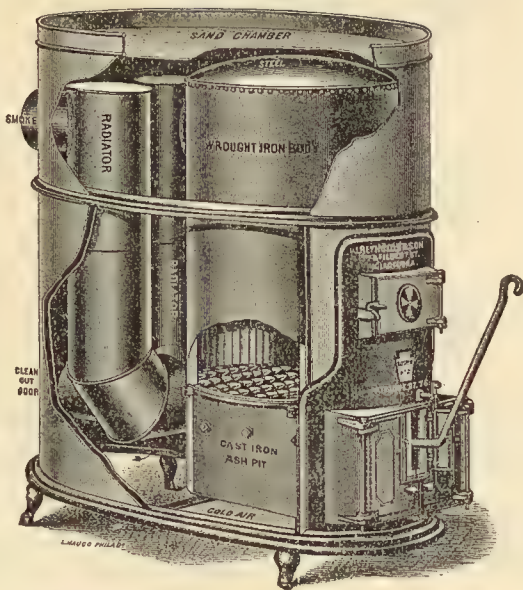
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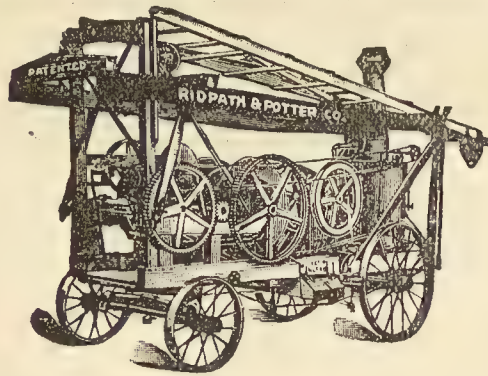
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Residence (alts.), Bala, Pa. Architect, Louis Carter Baker, 34 South Seventeenth street, Philadelphia. Owner, Dr. Charles A. Service, Bala, Pa. Consists of new bath room and dressing room, tin roof. Contract awarded to J. P. Thompson, Real Estate Trust Building, Philadelphia.

Residence and Garage, Wawa, Pa., \$40,000. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Mrs. Florence E. Wood, 2211 St. James Place, Philadelphia. Stone, 2½ stories, fireproof, 50x110 feet, slate roof (heat and light reserved), oak floors, hollow tile partitions, metal lath. Contract awarded to Loos & Dothard, 1438 South Penn Square, Philadelphia.

Sub-Station, Lansford, Pa. Architects, Schofield Eng. Co., Commercial Trust Building, Philadelphia. Owners, Panther Valley Light, Heat and Power Co., Lansford, Pa. Brick, 1 story, 40x43 feet, slag roof. Contract awarded to Andrew Breslin, Summit Hill, Pa.

Garage, Cynwyd, Pa. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, Herbert J. Tily, Cynwyd, Pa. Stone and plaster, 2 stories, 36x22 feet, slate roof, hot water heating. Contract awarded to Mowrer Bros., Merion, Pa.

NEW JERSEY

Construction News



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Residences (9), Morton street, Camden, N. J. Architect, private plans. Owner, M. J. Lawniciki, 1111 Butler street, Camden, N. J. Brick, 2 stories, 14x42 feet each, slag roofs, hot air heating, gas lighting. Owner taking sub-bids.

Store (add.), 526 North Second street, Camden, N. J. Architect, private plans. Owner, Thomas Homan, on premises. Brick, 1 story, 17x25 feet, slag roof, steam heating, electric lighting. Owner taking sub-bids.

Residences (2), 1259 and 1287 Sheridan street, Camden, N. J. Architect, private plans. Owner, Ellis Hannan, 1188 Morton street, Camden, N. J. Brick, 2 stories, 16x14 feet, and 14x55 feet, slag roofs, hot air heating, gas and electric lighting. Owner is taking sub-bids.

Residence, Palmyra, N. J. Architect, Clyde Adams, 1509 Arch street, Philadelphia. Owner, Ferguson McCormick, Palmyra, N. J. Stone, 2½ stories, 25x32 feet, shingle roof, hot air heating, electric lighting. Plans in progress. Owner will take bids.

Residence, Cape May, N. J. Architect, John Molitor, 130 South Fifteenth street, Philadelphia. Owner's name withheld. Frame, 2½ stories, shingle roof, gas and electric lighting. Architect taking approximate bids. Alex. Chambley, 243 South Tenth street; W. L. Cummings, Cape May, N. J., are figuring.

Stores and Flats, Alpha, N. J., \$10,000. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, Emil Antol, Alpha, N. J. Brick and concrete, 2 stories, 75x50 feet, slate roof, hot air heating, gas and electric lighting. Plans in progress.

Apartment House, Phillipsburg, N. J., \$7,500. Architect, J. J. Weitzenfeld, Easton National

Bank Building, Easton, Pa. Owners, A. E. Person & A. R. Barkholder, Phillipsburg, N. J. Brick, 2½ stories, 44x55 feet, slate roof, gas and electric lighting, composition floors, heating not decided. Plans in progress.

Loft Building, Trenton, N. J., \$24,000. Architect, Robert A. Schumann, 932 Lamberton street, Trenton, N. J. Owner's name withheld. Concrete and steel, 6 stories, 25x100 feet, concrete roof, steam heating, electric lighting, concrete floors, waterproofing and dampproofing. Plans in progress.

Picture Theatre, Trenton, N. J. Architect, Robert A. Schumann, 932 Lamberton street, Trenton, N. J. Owner, Harry Siegel, 124 Phillips street, Trenton, N. J. Cement block, 1 story, 35x90 feet, slag roof, steam heating, electric lighting, cement floors, metal lath, waterproofing and dampproofing. Plans in progress.

Residences (2), Trenton, N. J., \$4,000. Architect, private plans. Owner, Casper Witzgall, Trenton, N. J. Brick, 2½ stories, 14x30 feet each, slate and tin roof, hot air heating, gas lighting. Owner taking sub-bids.

Residences (2), Trenton, N. J. Architect, private plans. Owner, Samuel Hilton, Forst Richey Building, Trenton, N. J. Cement block, 2 stories, 12x25 feet each, slate and tin roof, hot air heating, gas lighting. Owner is subletting all contracts.

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NEW JERSEY

Contracts Awarded

Telephone Exchange (alt. and add.), Atlantic City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware and Atlantic Telephone and Telegraph Co., Thirteenth and Arch streets, Philadelphia. Brick, 1 story, 26x27 feet, slag roof, steam heating, electric lighting. Contract awarded to F. W. Van Loon, Denekla Building, Philadelphia.

Garage, Trenton, N. J., \$7,500. Architect, private plans. Owners, West End Garage and Machine Co., 416 West Hanover street, Trenton, N. J. Brick, 1 story, 66x110 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to W. J. & J. H.

Morris, Broad Street Bank Building, Trenton, N. J.

Garage, 338 Steven street, Camden, N. J. Architect, private plans. Owner, Harry Sweeney, on premises. Brick, 1 story, 18x20 feet, slag roof, electric lighting, cement floors. Contract awarded to Harry Baumgartner, Lawndale, N. J.

Store and Residence, 1200 Everett street, Camden, N. J. Architect, private plans. Owner, Jules Erbeau, on premises. Brick, 2 stories, 18-60 feet, slag roof, hot water heating, gas and electric lighting. Contract awarded to S. Levy, 1001 Kaighns avenue, Camden, N. J.

MARYLAND

Construction News

Church, Pulaski street, Baltimore, Md., \$15,000. Architect not yet selected. Owner, St. Luke's Reformed Church, Rev. Clayton H. Rauch, Baltimore, Md. Stone, 1 story, slate roof, steam heating, electric lighting. Architect will soon be selected.

Store and Warehouse, 947 Linden avenue, Baltimore, Md. Architect, S. Russell, 2900 Clifton avenue, Baltimore. Owner, Gottlieb Kraft, 723 Gorsuch street, Baltimore. Brick, 3 stories, 125x26x48 feet, slag roof, steam heating, electric lighting. Plans in progress.

Bank Building, Thirty-sixth and Hampden streets, Baltimore, Md. Architects, Ellicott & Emmart, Union Trust Building, Baltimore. Owners, Provident Savings Bank, Howard and Saratoga streets, Baltimore. Brick, 3 stories, slag roof, steam heating, electric lighting, tile work. Plans in progress.

Convent, Caroline and Biddle streets, Baltimore, \$25,000. Architect, F. F. Faris, Wheeling, W. Va. Owners, Carmelite Sisters, on premises. Brick, 2 stories, 160x130 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Pikesville, Md. Architect, Lawrence Hall Fowler, 347 North Charles street, Baltimore. Owner, T. Howard Boland, 520 North Eutaw street, Baltimore. Brick, 2½ stories, slate roof, steam heating, electric lighting, tile work. Architect taking bids, due December 1st. The following are figuring: W. E. Harn Co., 213 North Calvert street; Henry S. Ripple, 7 Clay street; A. Blakenen, 4022 Roland avenue, all of Baltimore, Md.,

and William B. Brooks and Philip Watts & Sons, of Pikesville, Md.

Picture Theatre, Eutaw and Clay streets, Baltimore. Architect, C. M. Anderson, 328 North Charles street, Baltimore. Owner, A. A. Brager, Eutaw and Saratoga streets, Baltimore. Brick, 2 stories, slag roof, steam heating, electric lighting, tile work. Architect taking bids. Consolidated Engineering Co., Calvert Building, Baltimore, and Singer-Pentz Co., Equitable Building, Baltimore, are figuring.

SOME MORE ADVERTISING "DONT'S."

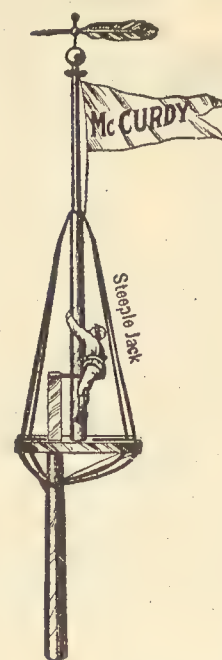
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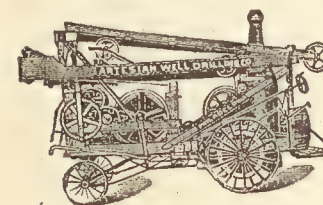
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MARYLAND

Contracts Awarded

Residence, Waldour Station, Md. Architect, Bayard Turnbull, 328 North Charles street, Baltimore. Owner, Carroll S. Alden, 73 Shipwright street, Annapolis, Md. Frame, 2½ stories, shingle roof, hot water heating, electric lighting. Contract awarded to James J. Stehle, 170 West street, Annapolis, Md.

Garage, York road and Arlington avenue, Baltimore. Architect, private plans. Owner, T. B. Kinnamon, Spring Hill and Rose avenue, Baltimore, Md. Brick, 2 stories, 30x68 feet, slag roof, electric lighting, concrete floors. Contract awarded to R. B. Mason, 308 West Madison street, Baltimore, Md.

Garage, Roland Park, Md. Architect, Laurance Hall Fowler, 347 North Charles street, Baltimore. Owner, B. H. Griswold, Jr., 218 Ridgewood road, Roland Park, Md. Brick, 2 stories, 32x33 feet, slate roof, electric lighting. Contract awarded to W. E. Harn Co., 213 North Calvert street, Baltimore, Md.

Store Building (add.), 3105 West North avenue, Baltimore, \$5,000. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, G. Koebereiner, 1407 East Baltimore

street, Baltimore. Brick, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to M. Wilden, 1402 East Baltimore street, Baltimore, Md.

Club House (add.), Park Heights avenue, Baltimore, Md., \$7,500. Architect, Joseph Evans Sperry, Calvert Building, Baltimore. Owner, the Suburban Club, of Baltimore, on premises. Frame, 2 stories, electric lighting. Contract awarded to G. W. Tovell, Eutaw and Dolphin streets, Baltimore, Md.

Livery Stable, Cumberland, Md., \$14,000. Architect, private plans. Owner, G. Maurice Fisher, 51 South Mechanic street, Cumberland, Md. Hollow tile and plaster, 2 stories, 65x200 feet, slag roof, steam heating, electric lighting. Contract awarded to William J. Morley, Cumberland, Md.

Store Building (alt. and add.), Howard and Lexington streets, Baltimore, \$25,000. Architects, Smith & May, Law Building, Baltimore. Owners, Read Drug and Chemical Co., on premises. Brick and steel, 6 stories, slag roof, steam heating, electric lighting. Contract awarded to Blake & Engle, Law Building, Baltimore, Md.

Miscellaneous Construction News

Post Office, Stamford, Conn. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick, stone and terra cotta, fireproof, 1 story, 120x125 feet, tile roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing, safety treads. Lowest bid submitted by Chas. McCaul Company, 1713 Sansom street, Philadelphia, Pa.; \$100,000.

Post Office, Danbury, Conn. Architect, Oscar Wenderoth, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick, fireproof, 2 stories, 87x127 feet, composition roof, steam heating, electric lighting, metal lath, dampproofing, safety treads. Lowest bid submitted by Chas. McCaul Company, 1713 Sansom street, Philadelphia, Pa.; \$60,000.

Store Building, 712 Market street, Wilmington, Del. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owner, W. E. Hawkins, on premises. Brick, 3 stories, 28x86 feet, slag roof, steam heating, gas and electric lighting, waterproofing and dampproofing. Plans in progress.

Factory, Seventh and Orange streets, Wilmington, Del. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington. Owner, W. W. Bottomley Company, Fourth and Tatnall streets, Wilmington. Brick and stone, 3 stories, 24x90 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Plans in progress.

Heating Plant, New Castle, Del. Architect, Leon Crawford, Odd Fellows' Temple, Wilmington. Owner, State of Delaware, Dover, Del. Consists of new heating system for building State Rifle Range. Plans in progress.

Residences (3), Wilmington, Del. \$10,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Morris Binder, 221

King street, Wilmington, Del. Brick, 2 stories, 20x25 feet, slag roofs, hot air heating, gas and electric lighting. Architect has received bids.

Residence (alt. and add.), Claymont, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, James Meharg, Ninth and King streets, Wilmington, Del. Brick and stucco, 2½ stories, shingle roof, tile work, composition floors, metal lath, dampproofing. Architect has received bids.

Western High School (alt. and add.), Thirty-fifth and R streets, N. W., Washington, D. C. Architect, Snowdon Ashford, Washington, D. C. Owner, District Commissioners, District Building, Washington, D. C. Brick and stone, 3 stories and basement, slate and slag roof, metal lath, waterproofing and dampproofing (heating and lighting, reserved). Owner taking bids, due November 19th.

High School (Colored), Washington, D. C. Architect, Snowdon Ashford, Washington, D. C. Owner, District Commissioner, District Building, Washington, D. C. Brick, stone and steel, fireproof, 3 stories and basement, 149x401 feet, slag roof (heating and lighting, reserved), metal lath, waterproofing, enamel brick, safety treads. Owners taking bids due November 19th. Irwin & Leighton, 126 North Twelfth street, and H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia, are figuring.

High School, Charleston, W. Va. Architect, Frank L. Packard, Hayden Building, Columbus, Ohio. Owners, Board of Education, Secretary, A. G. Higgenbotham, Charleston, W. Va. Brick and stone, fireproof, 3 stories, 125x184 feet, slag roof, steam heating, metal lath, waterproofing, dampproofing, enamel brick, safety treads, electric lighting. Owners taking bids, due November 21st. J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

Miscellaneous

Contracts Awarded

Residence and Garage, Wilmington, Del., \$19,000. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington. Owner, James F. Hooy, 1905 Boulevard, Wilmington, Del. Brick, 2½ stories, 44x48 feet, shingle roof, vapor heating, gas and electric lighting, hardwood floors, tile work, waterproofing and dampproofing. Contract awarded to John E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Theatre (alts.), Wilmington, Del., \$5,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owners, Avenue Amusement Co., Delaware avenue and Tatnall street, Wilmington, Del. Brick, 1 story, consists of new flooring, decorating, etc. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

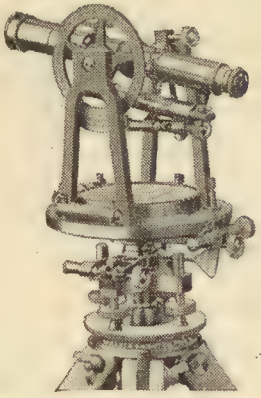
Walt Mason discussed The Plumber recently. Here's how he did it:

"With stately stride the plumber comes, and stays around a while and plumbs. He gives the boiler sundry slaps, and tinkers with the pipes and taps, and when he leaves my humble place a smile of gladness lights my face. For he has made a modern shack of my abode, which, three weeks back, was such as people used to own along about the age of stone. For years I bought all kinds of pills to cure my relatives of ills. My old granny had the heaves, and swallowed tea of boneset leaves, year after year, and still felt punk, with daily spasms in her trunk. My aunt with every breath she drew, and though I was foundered, and she knew green pains, bought her pails of dope, the poor old girl was shorn of hope. My Uncle Hiram's rheumatiz just kept him muttering, 'Gee whiz!' And everyone around the shack had pink lumbago in the back. And then the Wise Man came along, and said, 'You'll ne'er be well and strong, you'll always have the grievous gripes, until you put in modern pipes.' The plumber came, with lead and brass, and freed the place from sewer gas, and sprung some sanitation curves—and gets the praise that he deserves. Now granny has no fell disease; she's swinging on the high trapeze; my aunt can take a fall from Gotch in seven minutes by the watch; my Uncle Hiram, rid of aches, can whip Jack Johnson in three shakes."

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Permits for New Buildings

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Philadelphia

Schlosberg & Cohen (O), 2534 Hollywood street. Cost, \$10,00. Five dwellings, 2 stories, 14x30 feet, 3032-40 Edgemont street.

W. Townsend (O), Broad and Erie avenue. F. B. Thompson (C), Stock Exchange Building. Cost, \$110,000. Twenty-two dwellings, brick, 3 stories, 16x53 feet, Cheltenham avenue and Magnolia street. Cost, \$3,500. Seven dwellings. Cost, \$6,000, one dwelling. Cost, \$6,000. One dwelling.

Bishop Nicholson Memorial (O), Tenth and Rockland streets. A. Raymond Raff (C), 1635 Thompson street. Cost, \$17,000. Church, brick, 1 story, 54x91 feet, Tenth and Rockland streets.

David McKibbin (O), 2900 Frankford avenue. Cost, \$4,200. Three dwellings, brick, 2 stories, 18x29 feet, Clearfield and Agate streets. Cost, \$4,200. Three dwellings.

Gulf Refining Co. (O), Morris Building. S. W. Hahn (C), Glenside, Pa. Cost, \$3,000. Stable, brick, 1 story, 125x158 feet. Cost, \$2,500. Warehouse, Fourth and Allegheny avenue.

Kahn & Greenburg (O), 1421 Chestnut street. Turner Concrete Steel Co. (C), 1713 Sansom street. Cost, \$135,000. Manufacturing, 2-story addition, concrete, 98x240 feet, Twenty-third and Chestnut streets.

Pennsylvania Railroad Co. (O), Broad St. Station. Armstrong & Latta (C), aLnd Title Building. Cost, \$17,500. Sub-station, brick, 2 stories, 35x52 feet, Schuylkill drive.

Church of Our Lady of Pompeii (O), 602 Erie avenue. Frank Lucci (C), 1351 Christian street. Cost, \$16,100. Church, brick, 1 story, 50x97 feet, 602 Erie avenue.

T. Merkle (O), 130 East Mentor street. Cost, \$3,600. Two dwellings, brick, 2 stories, 14x25 feet, 4830 North Palethorp street.

M. Stevens (O), 912 Fanshaw street. Cost, \$2,500. Residence, brick, 3 stories, 16x40 feet, 912 Fanshaw street.

West Walnut Street Apartment House Co. (O), 122 South Thirteenth street. Cost, \$137,000. Apartment House, brick, 12 stories, 36x73 feet, Twenty-second and Walnut streets.

A. S. Tourison (O), 7014 Boyer street. Cost, \$10,00. Dwelling, stone, 3 stories, 28x48 feet, Boyer and Mt. Pleasant streets. Cost, \$10,000. Dwelling, stone, 3 stories, 28x48 feet.

E. Dagers (O), B and Westmoreland streets. G. Idell (C), Ambler, Pa. Cost, \$5,400. Three dwellings, brick, 2 stories, 16x28 feet, Ontario and Ella streets. Cost, \$2,000. Store and dwelling.

Alterations and Additions

Mrs. G. Esslinger (O), 2808 Oxford street. Koehle Speth Co. (C), Twenty-sixth and Oxford streets. Cost, \$1,100. Garage, Oxford and Stillman streets.

Children's Hospital (O), Twenty-second and Locust streets. Henry L. Brown (C), 1714 Sansom street. Cost, \$2,000. Hospital, Twenty-second and Locust streets.

Mastbaum & Fleisher Bros. (O), Broad and Walnut streets. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$1,000. Store and dwelling, 624-26 South Broad street.

A. M. E. Church (O), Twenty-second and Moore streets. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$1,050. Church, Twenty-second and Moore streets.

M. S. Hecklin (O), 2654 Kensington avenue. J. F. Crowe (C), 3121 Balgrade street. Cost, \$3,000. Store and dwelling, 2650 Kensington avenue.

P. Seibert (O), 1237 South Ninth street. J. Ehmann (O), 1026 Mountain street. Cost, \$2,000. Shop, 1237 South Ninth street.

Harshaw Fuller Goodwin Co. (O), Elyria, Ohio. A Raymond Raff (C), 1635 Thompson street. Cost, \$3,000. Shop, Swanson and Jackson streets.

Robert Kennedy (O), 1326 Christian street. F. Lucci (C), 1351 Christian street. Cost, \$1,400. Store and dwelling, 158 North Sixth street.

J. Netter (O), 1211 Arch street. Lam Building Co. (C), 1001 Wood street. Cost, \$1,500. Store, 209 North Second street.

D. F. Deal (O), Fifty-fourth and Haverford avenue. J. D. Fisher (C), 5718 Market street. Cost, \$2,200. Garage, 427 South Fifty-fourth street.

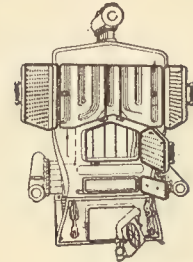
M. E. Hospital (O), Broad and Wolf streets. M. L. Conneen (C), 131 South Twesty-fourth street. Cost, \$7,533. Hospital, Broad and Wolf streets.

Chester Avenue Baptist Church (O), Forty-sixth and Chester avenue. E. J. Kreitzburg (C), 1345 Arch street. Cost, \$8,200. Church, Forty-sixth and Chester avenue.

Mitchell Fletcher Co. (O), Eighteenth and Chestnut streets. J. N. Gill Co. (C), Heed Building. Cost, \$1,675. Stable, 2124 Race street.

Don't knock. Boost! Don't grouch. Smile! Don't mope. Advertise!

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A boiler recommended by all who use them is not necessarily a reason why you should buy that boiler. But it is perhaps a reason why you should see that boiler before installing any other.

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Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

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Improvement

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NOTICE TO CONTRACTORS.

NEW COUNTY BUILDING FOR NEW CASTLE COUNTY AND NEW MUNICIPAL BUILDING FOR THE CITY WILMINGTON.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions in the Church Building, at the corner of Market and Tenth sts., in the City of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time) on the first day of December, 1914, for the Interior Marble, for the Interior Cut Stone, for the Bronze Work, for the Miscellaneous and Ornamental Iron, for the Painting and Finishing, for the Hollow Metal Doors, for the Finished Hardware, for the Brick Paving, for the Sidewalks, and for the Revolving Doors, entering into the construction and completion of the new County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King street and French street and between Tenth street and Eleventh street, in the City of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings, for each department or class of work above listed.

Each proposal for Interior Marble shall be accompanied by a certified check or cash deposit in the amount of Four Hundred Dollars (\$400).

Each proposal for Interior Cut Stone shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars (\$300).

Each proposal for Bronze Work shall be accompanied by a certified check or cash deposit in the amount of Six Hundred Dollars (\$600).

Each proposal for Misc. & Ornamental Iron shall be accompanied by a certified check or cash deposit in the amount of five hundred (\$500).

Each proposal for Painting & Finishing shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars (\$300).

Each proposal for Hollow Metal Doors shall be accompanied by a certified check or cash deposit in the amount of Eight Hundred Dollars (\$800).

Each proposal for Finished Hardware shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for brick paving shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for Sidewalks shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for Revolving Doors shall be accompanied by a certified check or cash deposit in the amount of One Hundred Dollars (\$100).

The Commission to reserve the right to reject any or all proposals received, if they con-

sider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guaranties or Surety Companies, aggregating in amount fifty per cent. (50 per cent.) of the amount of the contract.

On and after November 17, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of Fifty Dollars (\$50), this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before December 15, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY.

Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

INVITATIONS FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 26, 1914.—Sealed proposals will be received at this office until 3 P. M., November 16, 1914, and then opened, for new clock, etc., for present tower of the U. S. Post Office and Court House, Danville, Va., in accordance with the drawing and specification, copies of which may be obtained at this office. O. Wenderoth, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 27, 1914.—Sealed proposals will be opened in this office at 3 P. M., December 17, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of two-story and basement stone, terra cotta, and brick-faced building of 6,800 square feet ground area, fireproof construction, composition roof, for the United States post office at Glens Falls, N. Y. Drawings and specifications may be obtained from the Custodian at Glens Falls, N. Y., or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after November 7, 1914. O. Wenderoth, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Oct. 31, 1914.—Sealed proposals will be received at this office until 3 P. M. Dec. 2, 1914, and then opened, for coal-handling apparatus, etc., in the United States Mint at Philadelphia, Pa., in accordance with drawing and specification,

copies of which may be had at this office or at the office of the custodian, United States Mint, Philadelphia, Pa., in the discretion of the Supervising Architect, O. Wenderoth, Supervising Architect.

AN IMPORTANT FACTOR IN VENTILATION.

The exhausting of foul or contaminated air presents the greatest problem in the ventilation of any house, and this is likely to be a difficult matter unless suitable flues have been provided at the time of the erection of the building.

Open fireplaces afford good exhaust ventilators only when a fire is maintained in the grate, or gas logs are in use. The foul air must be taken out of a room at or near the floor line. The warm and pure air when admitted to a room rises to the ceiling, settling to the breathing line and thence to the floor as it becomes heavy during the process of cooling; and that below the breathing line is the contaminated or foul air.

To exhaust the bad air in the larger and more important rooms of a house heated by steam, hot water, or vacuum-vapor, a good plan is to build ventilating flues in pairs, one extending down to the floor line of the second floor rooms, the companion flue reaching to the first floor, with each of these rooms connected to the flues by foul-air registers close to the floor. A heating coil (of pipe) should be placed just above the inlet register in each flue in order to warm and expand the air in the flue to create a draught which will suck the foul air from the room.

I have noted many buildings provided with ventilating flues (so called) with registers near the ceilings, as well as others in which the registers were properly placed, but which were without heat in the flues. The former method is useful only to rob the room of heat, or the purest air within it, while the latter is of no benefit whatever for ventilating purposes. Atmospheric pressure (14.7 pounds) exerted downward in the flue positively prevents the discharge of foul air until the flue has been heated and the air within expanded and lightened sufficiently to overcome atmospheric pressure and create an upward current of the air in the flue.

Another and very useful plan is to build a ventilating chimney. The smoke-pipe passing upward through this stack warms and expands the air in the flue, and several foul-air ducts may empty into it. The smoke flue can be made of iron or of terra-cotta pipe, with tightly cemented joints.

The cost of such a system is moderate, the building of the ventilating shaft or chimney forming the chief item of expense. It is well to remember, by the way, that any dwelling can be better heated when provision is made for exhausting the foul and contaminated air.—Alfred G. King, in "House Beautiful."

You can't get figs from thistles. Nor can you get an assured income from a shoe-string advertising proposition.

THE RETURN OF THE DOOR-KNOCKER

One of Those "Little Things" that Has Risen from the Plane of the Strictly Utilitarian to That of the Decorative.

We must confess at the start that our chief interest in door-knockers is largely a sentimental one. We like to dwell on the days that preceded the sharp electric bell, when the knocker's friendly rat-rat-tat betokened genuine, old-time hospitality. From the time that the London knocker, immortalized by Dickens, assumed the features of Marley—yes, and before then—a truly human interest has attached to this guardian of the door.

The primary purpose of the door-knocker was, of course, strictly utilitarian. In time, however, its ornamental possibilities received attention. Thus the evolution from the simple iron ring that did duty in early times to the ornate designs of modern days. The Colonial period in our own country has given us a wealth of knockers, their patterns being tracedable to England. The best work of the conscientious artisan went into this form of building hardware, with the result that many of the knockers were truly works of art.

This suggests one of the sources from which our present-day supply of knockers come, for, as hinted above, the knocker is fast coming into its own again. I refer to ancient homes, particularly in New England. If the knocker-hunter have the good fortune to locate one of the mansions in the process of demolition, he may be able to pick up the desired reminder of Colonial days for a trifling sum. With many unappreciative persons, the old, artistic knockers merely represent so much "junk." Even in the antique shop, where exorbitant prices are usually supposed to obtain, iron and brass knockers can be purchased for a few dollars. They may not be genuine antiques—and the dealer is often honest enough to say so—but if the chaste Colonial pattern is reproduced satisfactorily, what difference does it make?

Another source from which the modern door may be supplied with this ancient fitting—and this by far the largest field—is the output of the manufacturer of artistic "finishing hardware." This whole subject is receiving an immense amount of attention to-day, and rightly so. Why should we make an exhaustive study of the architectural plans of our homes, the size and number of the rooms, the appropriate finish of walls and floors, and then utterly ignore the matter of hardware fittings? It is, indeed, in the careful choice of the misnamed "little things" that the house-builder has the greatest chance in the world for that distinctive note that will distinguish his home from that of his neighbor. There is every good reason why the knocker should be included in the building hardware. Its popularity by no means indicates that it is a far from practical fad that will soon pass away. Very often it is

connected with the electric bell and thus performs a double function.

The door-knocker is equally suitable for the city home and the country bungalow. As to style, it should be as nearly uniform with that of the house as possible. As Colonial architecture is so generally prevalent, the Colonial knocker is likewise popular. An attractive assortment of simple, dignified designs are offered that appeal readily to the person of refined taste. The oval, perfectly plain or with simple ornamentation, is a favorite pattern. The beaded edge makes a pleasing finish. The Greek vase and urn are often seen, both with and without the name-plate.

But the knocker designs do not end with the Colonial. Indeed, so great an interest has been revived in the whole subject that knockers are now classified by schools. Thus we have the Romanesque, the English Gothic, the French and Italian Renaissance, and so on. Then there are knocker designs that do not fall readily into any architectural period, but form a group by themselves. Their name is legion and each suggests an interesting story. There is the Stratford knocker, for instance, bearing the well-known bust of the Bard of Avon; the Falstaff, the Robin Hood, Windsor Stag, the Lincoln Imp (copied from a gargoyle on the cathedral), and a Cheshire Cat with exaggerated humped back.

Besides the knocker for the outer door, there is a smaller size for inner doors. The guest-room knocker, it is often called. No quainter memento of a trip to England—the land of knockers—can be selected than a souvenir of this sort. In one home that I know, the famous Lincoln Imp, brought from over-seas, holds fiendish guard over the guest-room door.

The materials from which knockers are fashioned are generally brass or cast bronze. Iron was formerly used to a great extent, but is not in general favor to-day. The copperish hue of the bronze is admired by many. For all-round purposes brass is decidedly practical. It is both ornamental and durable and can easily be kept in a state of shining attractiveness.—"House and Garden."

ANNUAL CONVENTION OF NATIONAL ASSOCIATION OF BUILDERS' EXCHANGES.

It has been decided that the next annual convention of the National Association of Builders' Exchanges will be held in the city of Columbus, Ohio, on January 26 to 28, inclusive, 1915.

HEALTH LAWS UPHELD.

Laws for the protection of the public health would fail in their purpose but for the deep interest taken in their enforcement by the plumbing trade throughout the country. A recent instance of the advantage of having an organization such as the State Examiners of Plumbers of Massachusetts is brought up in the case of a New Bedford plumber who was charged with doing the plumbing work without being registered or licensed as required by law. He was found guilty by the Superior Court, but filed exceptions to the rulings of that court. The case was then carried to the Supreme Court. The plumber claimed that he had a right to work at his will to earn his living by work at any lawful trade he thought fit and that the statute under which he had been found guilty unduly interfered with that right and was therefore unconstitutional. While the court upholds that the constitutionality of the law is sacred, and as claimed by the defendant, it ruled that it was not absolute, and the ruling was to the effect that, like almost every other individual right, it must yield to the right of government to impose such reasonable restraints as are required for the protection of public health and public morals, or in other words, the police power. The gist of the ruling which is brought to the attention of this journal by an officer of the Massachusetts Board of Examining Plumbers is that the full bench of the Supreme Court ruled that the right of the government to impose reasonable restraint as required for the protection of the public health was greater than the rights given to individuals under the constitution of the United States. This ruling doubtless will have interest outside of the plumbing trade. It will give great encouragement to workers in the sanitary field to continue their efforts to prevent that independent action which is beneficial only to the single interest of the man making a profit and which at the same time may be a menace not only to his customers, but to the public in general.—"Building Age."

SPACE FOR A SMILE.

MODERN REQUIREMENTS.

The Real Estate Man was showing apartments to the young married couple. "There are," he said, "seven rooms and two baths; large, spacious kitchen; hot and cold water; southern exposure; elevator service; steam heat; gas; electricity and no charge for janitor's jobs. The price is especially low—only fifteen hundred a year. We will do all the papering necessary, repair floors and ceilings and make any alterations you desire."

The young bride turned to the young husband.

"James," she said coldly, "it won't do at all. The place is simply barbarous. I've studied the plans very carefully—and I don't see one single room where we could take up the rugs and dance."—"New York Evening Sun."

Bell Phone, Spruce 6612 Keystone Phone, Race 2799

The Philadelphia Real Estate Record and BUILDER'S GUIDE

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Irving Dillon. Editor

PHILADELPHIA, PA., NOVEMBER 11, 1914.

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Editorial Comment

The advantages of organization is not, by any means, a new subject. It has been talked about and written about so often and over so many years that it would take a genius to find anything very new to say about it. It has been left to Secretary W. H. Sayward, of the Master Builders' Association, of Boston, to marshal these arguments in about as concrete and practical a form as any we have ever been privileged to see.

"The only way in which the general welfare of society, or of any section of society," writes Mr. Sayward, "can be attained is by the individuals composing society or the section 'pulling together.'"

"But people either in society at large or in divisions covering special interests are prone to delay taking measures either for protection or advancement until they suffer from some sharp pinch of adverse conditions; then they fling themselves together hurriedly, and act hurriedly, with the almost unavoidable result that the action taken is crude and unsatisfactory, fails to cover the ground, and, to greater or less extent, prejudices the situation rather than improves it.

"To 'pull together' effectively there must be something better than spasmodic action. In the first place, there should be an equipment fitting for the 'pull.' To use a homely similitude, a team of horses may be strong and willing, but unless they be fitted with harness of the kind and quality equal to the load they are to pull, and have systematic training and direction when in harness, there will be great likelihood that their strength and willingness will not accomplish what it should, and, on the contrary, may result in disaster.

"For men to accomplish anything worth while, to make their 'pulling' really amount to a 'together pull, they have got to be sufficiently impressed with the significance of united action to give time and thought to the building of machinery for the service.

"In other words, men do not expect to do good work without proper tools for the job, and the job of 'pulling together' is of all jobs the one which requires most perfect tools, tools which cannot be made in a hurry.

"This is what associated effort, if properly conducted, provides—machinery devised with deliberation and prior to any applied pressure. Then this machinery must be kept constantly under inspection, improved as experience dictates, oiled and ready for service at a moment's notice. Very often the mere fact that this machinery is known to exist, and is ready to be put in operation, prevents the movement of antagonistic forces.

"Our Association is an example of just this effectiveness. It keeps constantly in condition to respond to the call of its members when the need of 'pulling together' presents itself; no waiting for steps to be taken to organize, but ready to strike, and strike with precision, the needed blow."

That states the case for organization, to our way of thinking, about as concisely as it is possible to put it.

* * *

Is Chicago in danger of taking a tumble, one of these fine days, spilling a group of more or less expensive skyscrapers thereby into the blue expanse of Lake Michigan?

The Superintendent of Buildings of the city of Chicago states that virtually all of the large skyscrapers in the down town district are out of plumb. The department states that there are scores of buildings like the Leaning Tower of Pisa, only they do not lean quite so much, 30 inches being the most that any of them are out of the alignment. All of the early skyscrapers of Chicago were carried on floating foundations or on piles driven deep into the clay. All of these structures settled into the soil from 3 to 5 inches, owing to their weight. Some of these buildings are carried on jacks and as necessity requires, are leveled up as they settle, and after all subsidence has taken place, and the buildings have finally reached their level, the jacks are removed and foundation walls filled with masonry. These movements affecting tall structures must be taken into account when planning the buildings. Steam pipes, drainage pipes, electric wire conduits and the tubing which cross and recross the inside of the building are naturally affected by these movements, making it necessary to provide for flexibility for the piping systems in tall buildings.

We always cherished in secret the Eastern view that Chicago was on a more or less shaky foundation, but we must confess that we never even guessed the facts to be so bad as all this.

* * *

The Metropolitan Museum of Art gave a reception Thursday evening to the New York Commercial Tercentenary Commission, and every visitor received a leaflet upon which was printed the following quotation from an address by De Witt Clinton, Governor of New York, to the American Academy of the Fine Arts, in October, 1816:

"There are certain mighty pillars which support the complicated fabric of society, and there are distinguished ornaments which beautify and embellish it. Upon agriculture, manufactures and commerce; upon science, literature, morality and religion all associations of the human race must rely for subsistence or support—but the fine arts superadd the graces of a Chesterfield to the gigantic mind of a Locke. They are the acanthi which adorn the Corinthian column—the halos which surround the sun of knowledge; they excite labor, produce riches, enlarge the sphere of innocent amusements, increase the stock of harmless pleasure, expand our intellectual powers, improve our moral faculties, stimulate to illustrious deeds, enhance the charms of virtue,

diffuse the glories of heroism, augment the public wealth and extend the national reputation."

* * *

"The Guide" has on more than one occasion during the past five years advocated the establishment here in Philadelphia of a Municipal Art Society fashioned along the lines of the admirable institution of that name in New York City. One of the activities of the New York society is a free course of lectures under the auspices of the Board of Education to be given in the various lecture centers throughout Manhattan. A review of the subjects outlined will afford some idea of the splendid work the Municipal Art Society is doing in the metropolis to spread an intelligent interest in the fine arts.

John Quincy Adams, assistant secretary of the Municipal Art Commission, will give one of the courses at Public School 165, One Hundred and Eighth street, west of Amsterdam avenue, while the other will be given by Louis Weinberg, of the College of the City of New York.

The subject of Mr. Adams' course will be "Art and Daily Life," and the opening lecture will discuss "Art in the Use of Things." Later lectures will take up "The Beauty of Machine-made Things," "Paintings Belonging to the City of New York," "The Guild Painters of Holland" and "City Planning." Louis Weinberg will discuss "Modern Artists and Their Message," treating of Millet, Whistler, Manet, the International Art Exhibition and Rodin.

Next Tuesday evening Alexander T. Van Laer will continue his course of lectures on "The History of Painting" at the Museum of Natural History, Seventy-seventh street and Central Park West, with a lecture on "Sir Joshua Reynolds and the Painters of England."

* * *

Why not a Philadelphia Municipal Art Society? The question is respectfully referred to the talented and public-spirited gentlemen of the T-Square Club, the Art Club and the local chapter of the A. I. of A.

A HISTORIC FLIGHT FROM PARIS.

Madame de Hegermann-Lindencrone, author of "In the Courts of Memory," who was in France during the Franco-Prussian war, relates a detail of the flight of Empress Eugenie which was not generally known. When she was about to get into a cab, which she chose for its inconspicuousness, a small boy, catching sight of her, called out, "Viola l'Impératrice!" Luckily the Italian Ambassador who was with her turned on the boy quick as a thought, and said in a loud voice, "What do you mean by hurrahing for Prussia?" and boxed his ears, so that attention should be diverted from the Empress.

Advertiser! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

THE LOWEST BIDDER AND THE LOWEST RESPONSIBLE BIDDER

An editorial published in "Engineering and Contracting" recently, called attention to the fact that the lowest bidder and the lowest responsible bidder on a piece of work are often different contractors. An illustration was given in which the mayor of a small town insisted that a certain contract be awarded to the lowest bidder, although the engineer in charge suggested that the bid be rejected because it was obviously and very much too low. The mayor carried his point, the low bidder was awarded the contract and, owing to the lack of the requisite experience and working capital, soon abandoned his contract. The bondsmen, relatives of the contractor, refused to take up the work and suit had to be brought to compel them to do so. This, of course, meant a long delay in completing the work and heavy court costs. After the contractor abandoned his contract it was learned that he was an undertaker who, during a dull season in his business, decided to take up contracting as a side line. The editorial mentioned concluded that: "If some municipal official would give less thought to the possible saving of a few dollars in the contract price and would devote more consideration to ascertaining if the bidder had sufficient capital, experience, ability and plant to carry out the work, there would be fewer 'undertakers' taking up contracting as a side line."

The foregoing rather extreme case serves well to illustrate one of the greatest faults in the application of the contract system of doing public work, namely, the awarding of contracts to lowest bidders who are not properly qualified to carry their contracts to successful completion. This evil is becoming better recognized and there is a growing tendency to award contracts to the lowest responsible bidder rather than to the lowest bidder. Theoretically this has always been the case, but actually the vast majority of contracts for the building of public works have been awarded to the bidder submitting the lowest bids regardless of their other qualifications. This practice has been by no means limited to small towns or even municipal works; in fact, the practice has been all too general.

The two quotations which follow indicate the growing disapproval among engineers of the practice here condemned. In discussing a paper on the State supervision of dams and reservoirs, presented before the New England Water Works Association, Mr. M. O. Leighton, chief hydrographer of the United States Geological Survey, in part said:

"Consider the contractor. It is undoubtedly true, that many dam failures have been caused by poor work on his part. You know the predicament of a contractor who is losing money on his job, and how easy it is to consider the fact that he is losing money and

therefore to allow a little indulgence here and there. To secure a good piece of work under such conditions, eternal vigilance is usually necessary and few of us measure up to eternal vigilance. One of the best ways to obviate such a difficulty is to abolish that absurd and antiquated regulation which prevails, especially in public work, that the contract shall be awarded to the lowest bidder regardless of the cost and the difficulties and regardless of the real responsibility of the man. In 90 per cent. of the cases, and probably more, the expense, trouble and delay caused by a defaulting contractor who is awarded a job at a too low price, more than exceeds the difference between the successful bid and the rational one."

Plans and specifications insure good construction, as a rule, only under rigid inspection. Mr. Leighton's comments bring out a point which should be more generally appreciated by those who award contracts, that is, the human element must be considered in its relation to the rigidity of inspection when a contractor is losing considerable sums of money. The responsible contractor is one who will do good work even though at considerable financial loss to himself, but this type of contractor seldom bids too low in these days of basing bids upon carefully prepared contractor's cost estimates.

In his latest annual report Mr. Charles A. Finley, superintendent of the Pittsburgh bureau of water, comments as follows upon the folly of awarding contracts to the lowest bidder, regardless of other considerations:

"The unfortunate and unwarranted delay in some of our new work calls attention to the necessity of more rigid determination of the ability of bidders to execute the terms of contracts. These delays have arisen from

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lack of management. The provision in our specifications, that the bidder shall have the necessary organization, capital, experience, etc., to execute the terms of the contract, should be made to mean just what it says. The fact that a bidder is the lowest bidder should not secure for him any consideration unless he had demonstrated the ability to execute such a contract.

"A competent contracting organization is just as essential to satisfactory results as is the engineering organization which designs and supervises the work."

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The American Institute of Mechanical Engineers will meet in New York City December 1 to 4. Calvin W. Rice, secretary, 29 West Thirty-ninth street.

**The annual convention of the National Builders' Supply Association will be held in Chicago, Ill., February 8-9, 1915. Headquarters at Hotel Sherman.

**The Casualty Company of America has moved its offices from 133 William street to 68 William street.

**Moses Berman, architect, 702 Willoughby avenue, Brooklyn, desires catalogues and samples from manufacturers interested in the building trades.

**Anthony D. Pierce and Otto W. Sutts have formed a partnership to conduct a general contracting and building business, and have opened offices at 211 Fourth avenue, Bradley Beach, N. J.

**The second International Exposition of Safety and Sanitation will be held at the Grand Central Palace, New York City, December 12 to 19, 1914. This exposition is held under the auspices of the American Museum of Safety, and according to present plans will surpass the very successful exhibition held at the same place last year.

**The International Association of Master House Painters and Decorators of the United States and Canada will meet in annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Coreoran Building, Washington, D. C., chairman of Convention Committee.

**The International Exposition of Inventions will open at the Grand Central Palace, New York City, December 12, and continue until December 19. During the week of the exposition a series of lectures have been planned, which will be delivered by competent authorities, on the interests of American inventors and patentees.

**H. N. Underhill, connected with the Underpinning and Foundation Co., 290 Broadway, has resigned to accept a position with the MacArthur Concrete Pile and Foundation Co., 11 Pine street, New York City.

**Frank Day and James Margentino have formed a partnership under the name of Day & Margentino, to conduct a general contracting and building business and have opened an office in Dunellen, N. J.

**L. D. Cox, landscape architect of the Park Department of Syracuse, N. Y., has resigned to accept the position of associate professor of landscape engineering and architecture in Syracuse University.

**William A. Mitchell, formerly director and treasurer of A. L. Guidone & Co., general contracting, has resigned and will engage in

the general contracting business under his own name at 2409 Walton avenue, New York City.

**Richard E. Garwood, 2222 Bancroft street, Berkeley, Cal., a student in architecture and engineering in the California School of Arts and Crafts, desires catalogues and samples from manufacturers interested in the building trades.

**Otis Dockstader, architect, of Elmira, N. Y., has recently admitted his son, Ernest A. Dockstader, to full partnership with him. The firm, under the name of Otis Dockstader & Son, will continue the practice at 103 West Church street, Elmira, N. Y.

**John Beiswinger, who has been Eastern and export sales manager, with offices at 101 Park avenue, New York City, for Gill Bros. Co., Steubenville, Ohio, has recently been elected vice-president and general manager of sales for the company. In future Mr. Beiswinger will make his headquarters in the concern's home office at Steubenville. Mr. Beiswinger has been connected with Gill Bros. Co. for almost thirty years, and has watched the evolution of lighting glassware from the old lamp chimney business to the present development of glassware now used for semi-indirect illumination.

**James P. Farrell & Co., engineers and contractors for structural and ornamental iron work, announce the removal of their offices to 1621 Sansom street, Philadelphia. This change to larger quarters was made necessary by increased business.

The United Electric Construction Company of Philadelphia has been awarded the contract for the entire electrical equipment in the new Widener Building, a twenty-two-story structure, in course of erection, South Penn Square, Chestnut and Juniper streets, Philadelphia.

From an electrical standpoint, the building in question will mark an entirely new departure in many features, one of which is the installation of a universal clock system, which is effective in all offices, and controlled from one master clock in basement.

The various materials entering into the installation are the best that the market affords.

The same company has also been awarded the contract for the electric wiring to be installed in the Court of Honor erected on Broad street, Walnut to Spruce streets, in connection with the convention of American Federation of Labor.

The artistic effects in this feature will closely approximate the elaborate preparations that were made for the entertainment of the Elks in this city a few years ago.

THE OFFICE BUILDING—NEW AND OLD

What is an office building—and we mean now the modern steel structure and not the non-fireproof building? This is now the established type for office purposes, not merely in local territory, but all over the United States. There are very few buildings even in New York City, scarcely one north of Chambers street, that can be filled with tenants whose occupancy may be classed as that for office purposes. In a great majority of these structures there is a certain proportion of sample stock tenants, and a business occupancy of stores, at least on the first floor, and usually the basement and first. In the development of any live business it becomes necessary from time to time to revise the definitions and readjust the classes which the definitions cover. For many years a building of this type was considered an office building if it conformed to the following definition: "Office buildings include partial occupancy by sample stocks or small restaurants or grade-floor stocks." This definition is general, and permitted more or less leeway on the part of the one whose duty it was to decide whether a building fell within the office class or not. After an experience of about ten years, a somewhat more elastic, and yet at the same time more clearly defined, rule was adopted.

The insurance on the contents of an office building of the type we are considering, so far as the strictly office tenants or even sample tenants are concerned, is usually a matter of minor consideration. If any is carried such cases it is usually so small an amount that the premium involved is not a matter of serious consideration to the tenant. Large lines may be involved below the second floor where the stock conditions prevail.

The rate of insurance on the building appears usually to be of more consideration to the parties in interest than the rate on the tenants; but it should be emphasized that as the basis for the tenant's rate is the structural conditions of the building it follows that the nearer the building approaches standard conditions so much lower will the rate be for the tenant. As an instance of the wide range in the rate of insurance on these properties, the rate to-day on possibly the earliest building erected of this type is .316 for each \$100, while on buildings of the same height and class the minimum rate of .05 is secured.

The first building is eleven stories high, and the second is fifteen, with a rate for office furniture and fixtures on the fifteenth floor of .644, which is less than the rate on the fifth floor in the first-named building, although height is an important factor in the problem.

The principal factors taken into consideration determining the insurance rate fall under the following items: The key or basis rate of the city; the walls; unprotected metal members; height; floor; type of arch; floor openings; skylights; width of street; unprotected stone piers; columns, etc. All of these

items may, under proper guidance, be so taken care of with the exception of the height, basis, and width of street, as to make no change in the rate of insurance. We have learned how to protect the metal members in our fireproof buildings, but a large advance is still to be made in the floor openings.

The reductions which apply in the computation of the rate cover such items as fireproof floor surfaces; metal trim; standpipes; the office occupancy condition; watchman service; auxiliary private fire plant, and fire pails. There are many properties which are receiving the maximum allowance under all of these items, and as they amount in the aggregate to more than 60 per cent. of the charges made at the point where the reductions are allowed they should be carefully considered by the parties in interest.

The exposure charge on buildings of this type is becoming of less moment, due to the fact that they tend to mass themselves in that portion of the city where the older types of buildings are passing away. In other words, they are exposed largely by fireproof structures, and the exposure is based on the generally low rates prevailing on this type of risk.

The fireproof building in its earlier erection was overestimated, and many inferior types were deemed unassailable by fire. Experience proved the contrary, though until the Baltimore fire in 1904 the office structures were not severely tested. The same lesson was, two years later, in the San Francisco fire of 1906, driven home once more.

While these structures come through conflagration and even severe fires with the steel members and the walls usually in fair condition, the destruction otherwise is quite complete, and as the equipment and finish form a large part of the cost the loss on such properties is found to be very heavy.

Many attempts have been made to secure wired glass in properties of the type of construction which we are discussing. Where the exposure is somewhat severe, it is now usually possible to secure this type of glass which makes an excellent fire retardant, but there exists a very strong feeling that if the buildings could have, not merely where the exposure seems to make it advisable, but throughout their entire exterior walls, wired glass in place of the usual kind, that the advantage would be of mutual benefit.

It must be understood that the more nearly a fireproof building attains to a high standard as to cutoffs and interior construction, so much more does it make of each floor a condition equivalent to a furnace; but, if the walls of this furnace are in good part of ordinary glass, they will yield very readily to a fire on any floor, and the flames reaching the floor above from the outside will spread the fire in that manner. We have, in other words, a condition of floor openings, so to speak, on the outside of a building although the great-

est care may have been exercised in guarding the floor openings on the inside. Objections are raised usually by the real estate interest, very frequently, we understand, by the tenants to having wired glass in the windows because, as it was expressed by one tenant: "It made him feel like looking through a chicken coop." This is more a state of mind than a state of fact, and in due course we rather expect to see this view of the matter pass away and the wired glass window come into its own. In an effort to introduce this feature in these buildings special concessions have been made in the rate of insurance, but the only building which is qualified in this city, and perhaps the only one in the world, is a building recently completed, known as the Walker-Lispenard Telephone property.—E. R. Hardy, in "Architecture and Building."

BULKHEAD TO RESIST UNIT PRESSURE OF 200 POUNDS.

A paper by S. L. Wise and W. Strache, published in the August Bulletin of the American Institute of Mining Engineers and described in the "Engineering Record" of October 10th, describes an interesting case of waterproofing at the Hibernia Magnetite Mine, New Jersey. The tunnel was formerly closed by a mass of rock which leaked about six gallons per minute. It was decided to replace this by reinforced concrete which was waterproofed as follows:

The pressure face of the bulkhead was covered with 3 inches of Impervite waterproofing compound deposited behind steel plates built up with the concrete. The work was not continuous, and whenever it was interrupted sharp stones weighing about 100 lbs. each were set 6 inches apart in the upper surface of the concrete mass projecting from it and plastered with 1:1 mortar when work was resumed. When the roof was reached false forms were placed and the work was finished with tightly bonded dove-tailed blocks. Seven 2-inch grout pipes, four on the pressure side and three on the opposite side, were placed in the concrete as the work neared completion. Thirty-six hours after the concrete was finished, grout made with 1½ parts of sand and one part of cement mixed with water-dissolved Impervite was forced through the pipe under a pressure of 85 lbs. per square inch. Two weeks after the completion of the bulkhead it was subjected to a pressure of 160 lbs. per square inch. The result was a seepage of only one half gallon at first, and this afterward almost entirely ceased.

MIXING THE PERIODS.

Voice of builder (from below): "Hey there, Mike! Shift that 'Romenesquire' capital to the front by the Egyptian doorway, and use the Gothic one on the Renaissance column. It'll make it look a deal more classy."

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PROPORTIONING AGGREGATES FOR PORTLAND CEMENT CONCRETE.

One of the very interesting papers read before the American Society for Testing Materials at their convention, was that on the above subject by Albert Moyer. This paper has been printed in pamphlet form from the proceedings of the society and in the introductory pages Mr. Moyer gives the following summary:

"The object of the investigations into the proper proportioning of aggregates for Portland cement concrete is to obtain maximum density which, other things being equal, the author considers gives maximum strength.

"One of the principal results obtained in these investigations was that arbitrary specifications without previous knowledge of the character of the aggregates that are to be used are wrong, and that such stated proportions as 1:2:4 or 1:3:6, etc., are meaningless.

"It was found that 94 lbs. per cubic foot, or 3.8 cu. ft. per barrel, as a unit of measurement is incorrect. Investigations prove that it takes 110 lbs. of Portland cement to make 1 cu. ft. of paste. The author finds that, opposed to the old plan of filling the voids in sand with cement, these voids must necessarily be filled with paste (cement and water), and that the study of the proportioning of aggregates must be based on the proper proportions of cement, water and sand to make a sufficiently rich mortar to bind together the larger aggregates. The cement must be measured by weight, using 110 lbs. as equivalent to 1 cu. ft. of paste. If a 94-lb. bag is used as a unit for measurement, the proportions must be figured so that the same proportion of cement to sand is obtained as when based on 110 lb. of cement per cubic foot of paste.

"For the purpose of economy, various sizes of stone should be used and investigation made to see which sizes will produce the least percentage of voids, so that less mortar may be used and more strength obtained, for the reason that mortar is not as strong under compression as mortar and crushed stone or pebbles mixed together in the form of what we term concrete.

"The paper gives various methods of carrying on investigations, so that with a given sand and a given stone or gravel, proportions can be stated by the engineer which will make a concrete of maximum density and maximum strength."

Are you a regular subscriber to "The Guide"?

IMPORTANT CHANGES IN BUILDING PRACTICES.

A joint meeting of the American Institute of Architects and the National Association of Builders Exchanges was held in Philadelphia during the third week in September. Both organizations were represented by committees, which were composed of officers and men from Boston, New York, Baltimore, Washington, Philadelphia and Louisville, who are prominent in their respective organizations.

The object of the meeting, which lasted three days, was to consider and recommend changes in the present practices of building construction, and to formulate and standardize building specifications, contracts, etc., on more equitable lines.

It is understood that all who were present approached the subject with broad views of equity, and with distinct and clear business principles. As a result a unanimous recommendation was readily reached. This joint recommendation will be properly referred to each national organization for approval, and it is reasonable to suppose that this approval will be readily forthcoming, and the present methods which are now being used in building operations, and which are so expensive and uncertain to owners and all interested parties, will be shortly relieved and these operations will be conducted along the lines of modern business principles and methods.

ARCHITECTS OF AMERICA WAR RELIEF FUND.

A committee of which the chairman is R. Clipston Sturgis, president of the American Institute of Architects, has issued a call to the architectural profession of the country for funds to be used for the relief of the sufferers from the present European war. The call reads in part as follows:

"The debt which architecture owes to the countries of Europe is neither measurable in words nor payable in money, but in view of the appalling conditions brought about by the present war—the terrible suffering—the threatened destruction of that which can never be replaced—it is eminently fitting that the architects of America should unite and in the name of their profession and their art do their part towards affording some measure of relief to those upon whom this catastrophe has fallen. Money is needed, and it is profoundly hoped that every architect will contribute in the largest possible measure. It is further sincerely hoped that every architect

will give something—for it is the wish of the committee that this fund may not only be large, but that it may be truly representative of the profession, which, more than all others, owes its inspiration to the forbears of these people who are to-day bearing the intolerable burden of the most frightful war the world has ever seen.

"The treasurer of the fund is C. H. Whitaker, The Octagon, Washington, D. C., and subscribers may designate the country in which they wish their contribution expended. 'He gives twice who gives quickly.'"

CLEANING PRESSED BRICKS STAINED BY SMOKE.

For the cleaning of bricks in the walls of a church that had been blackened by coal smoke and which settled on the coping and washed down over the light colored hydraulic pressed brick, and where dilute muriatic acid, pearline and other substances had been tried without satisfactory results, the "Painters' Magazine" suggests the following procedure: Muriatic acid will not remove smoke stains, nor will soda or soda ash do it. Smoke stains must be removed by scrubbing and rubbing with the proper solutions.

Try the following method: Mix one gallon soft soap, two pounds powdered pumice and one pint of liquid ammonia, beating the mixture well. After carefully dusting the brickwork, apply the mixture, that should be in the form of a soft paste, in a fairly thick layer with a fibre brush, allowing it to remain for about twenty minutes; then rub it in on the brick with a good, stiff scrubbing brush, using plenty of elbow grease. Use a large sponge and plenty of lukewarm water to remove the lather, and then rinse with clear water, or, if convenient, use a hose for rinsing. This if properly done, will remove the most stubborn case of discoloration by smoke from brick or stone.

LIMITING FRAME HOUSES.

The suggestion of placing a limit in the suburban districts of New York outside of the fire limits within which frame construction will be restricted to detached dwellings appears to be meeting with considerable favor. Reports from the boroughs affected show that many of the real estate operators as well as the residents approve of the project and the feeling is quite general that all sections of the city in which development of any kind has started might very properly be included. In view of this general sentiment the outlines for the suburban limits have been drawn to include large areas where heretofore there was no restriction.

SURE.

Stick to your work, forget the mob,
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Artists' and Architects' Supplies.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Arches and Angles.

R. B. Wible & Son,
11th and Ontario sts., Phila.

Brick Renovating.

Adolph Christensen, 1433 Brown st.

Blue Prints.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Keystone Blue Paper Co., 910 Filbert st.,

Builders.

Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Iron Work.

W. E. Wark Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Builders' Specialties.

Builders Iron Works Co., 217 N. 15th st.,

Cement.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co., Penna. Bldg.,
Chas. Warner Co., Land Title Bldg., Phila.
Knickerbocker Lime Co., 266 N. 24th st.

Canvas Roofing.

R. A. Humphrys' Sons,
1021-23 Callowhill st., Phila.

Cement Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila

Clothes Dryers.

American Clothes Dryer Co.,
141 W. 19th st., New York City.

Concrete Construction.

Turner Concrete Steel Co., 1713 Sansom st.,

Door Hangers.

Richards-Wilcox Mfg. Co., 50 N. 6th st.,

Drawing Materials.

Keystone Blue Paper Co.,
910 Filbert st., Phila.
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1112 Chestnut st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts.

Engineers' Supplies.

Keystone Blue Paper Co., 910 Filbert st.,
Charles H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
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Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg.
F. E. Carpenter Co.,
868 Postal Bldg., New York City

Flag Poles (wood and steel).

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Floor Renovating.

General Flooring & Mfg. Co., 9 S. 18th st.

Floor Finisher.

R. O. Scheel, 9 S. 18th st., Phila.

Floor Laying.

General Flooring & Mfg. Co., 9 S. 18th st.

Floor Planing.

General Flooring & Mfg. Co., 9 S. 18th st.

Floors and Floor Finishing.

General Flooring & Mfg. Co., 9 S. 18th st.

Furnaces and Ranges.

Henry M. Miller, 46-48-50 N. 2nd st.,
J. Reynolds & Son, 1615 Filbert st., Phila.
Wm. Thomson, 64 N. 2nd st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Hangers (Wall and Joist).

Builders Iron Works Co., 217 N. 15th st.,

Hardwood Floors.

General Flooring & Mfg. Co., 9 S. 18th st.

Heating Boilers.

H. B. Smith, 1225 Arch st., Phila.

Iron Work (Structural and Ornamental).

W. E. Wark & Co., 1737 Filbert st., Phila.
Humphrys-Christman Co.,
635-37 N. Watts st., Phila.

Laundry Equipment.

American Clothes Dryer Co.,
141 W. 19th st., New York City

Lighting Fixtures.

Franklin Fixture Company,
242 Penn st., Reading, Pa.

Metal Ceilings.

The Sagendorph Co., Lafayette Bldg.

Metal Lath.

Builders Steel Products Co.,
Lafayette Bldg., Phila.
Payne & Scammell, Land Title Bldg., Phila.

Marble Mosaic.

Belfi Bros. & Co., 20-22 S. 19th st.

Mill Supplies.

The Fairbanks Co., 7th and Arch sts., Phila.

Mill Work.

O. M. Weber Co., North Wales, Pa.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Overhead Carrying Systems.

Richards-Wilcox Mfg. Co.,
50 N. 6th st., Phila.

Painting.

R. J. Carrick, 2016 Ranstead St., Phila.

Paints and Varnishes.

Felton, Sibley & Co., 136 N. 4th st., Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Parquetry Floors.

J. C. Moore Co., 35 S. 17th st., Phila.

Pipe Fittings and Valves.

The Fairbanks Co., 7th and Arch sts.

Plumbing Fixtures.

Camden Pottery Co., Camden, N. J.

Preservatives (Wood and Concrete).

F. E. Sagendorph, 437 Chestnut st., Phila.

Radiators.

H. B. Smith Co., 1225 Arch st., Phila.

Ranges.

Henry M. Miller, 46-48-50 N. 2nd st.,
William Thomson, 64-66 N. 2nd st., Phila.
Liberty Stove Co., 114 N. 2nd st., Phila.
J. Reynolds & Son, 1615 Filbert st., Phila.

Reinforcing Fabric.

Payne & Scammell, Land Title Bldg., Phila.

Refrigerators.

Borden Stove Co.,
118-20-22 N. 2nd st., Phila.
Henry M. Miller, 46-48-50 N. 2nd st.,

Roofing.

Barrett Mfg. Co., N. Y. City and Phila.
Benjamin Foster Co.,
22nd and Sedgley ave., Phila.

Roofing Slate.

C. F. Shellenberger, Builders' Exchange.

Roofing Tile.

C. F. Shellenberger, Builders' Exchange.
O. W. Ketcham, Builders' Exchange, Phila.

Scales.

The Fairbanks Co., 7th and Arch sts.

Sanitary Flooring.

Embossed Wall Covering Co., 880 N. 48th st.

Sewer Pipe and Flue Linings.

C. F. Shellenberger, Builders' Exchange.

Sash Pulleys.

American Pulley Co.,
4200 Wissahickon ave., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., Bourse Bldg., Phila.

Stair Work.

O. M. Weber Co., North Wales, Pa.

Steel Ceilings.

The Sagendorph Co., Lafayette Bldg, Phila.

Structural Engineer.

Harry C. Eisenbise Co., Penna. Bldg., Phila.
Chas. H. Kohn & Co., Heed Bldg., Phila.

Terra Cotta (Architectural).

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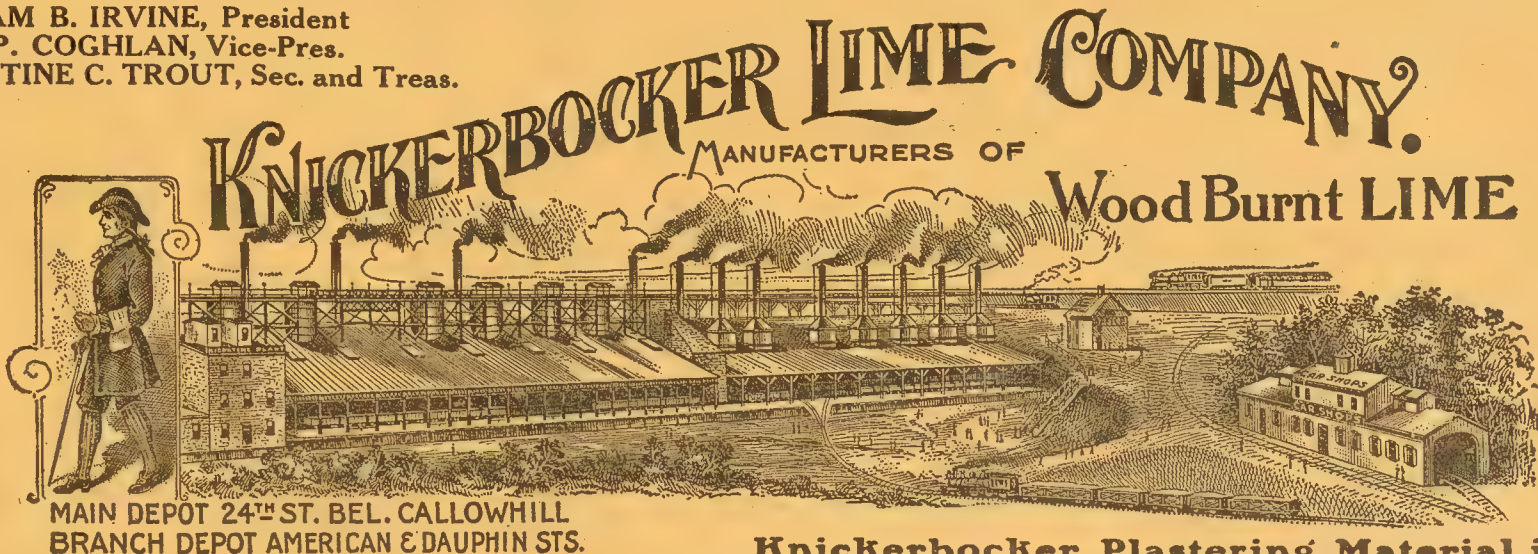
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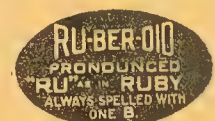
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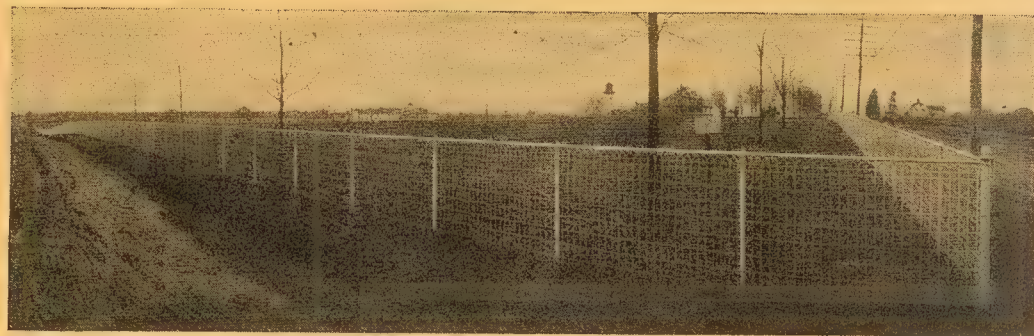
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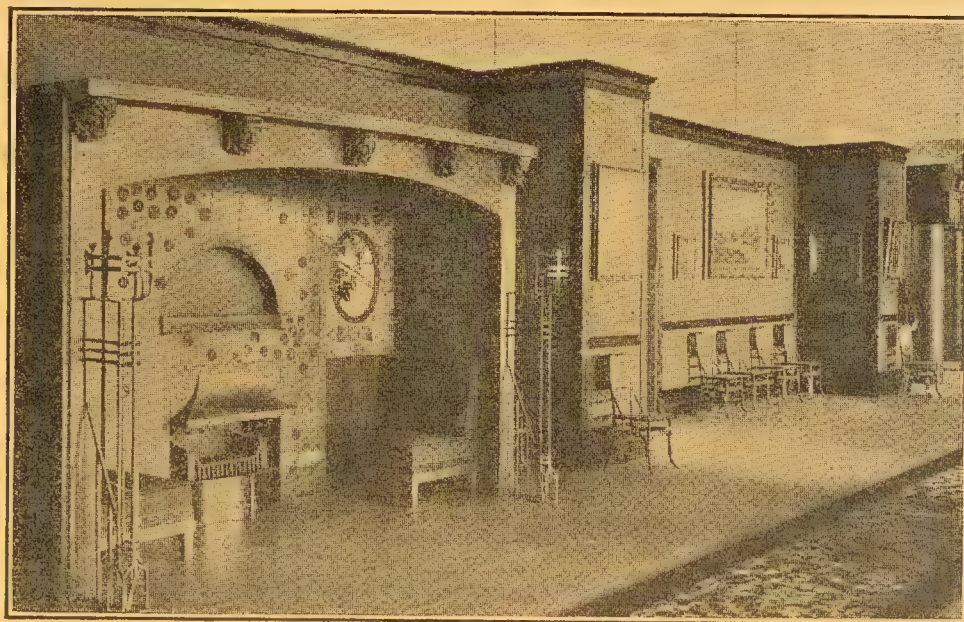
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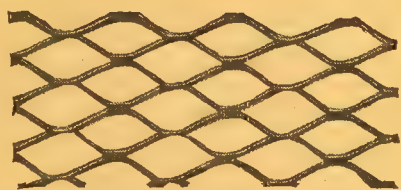
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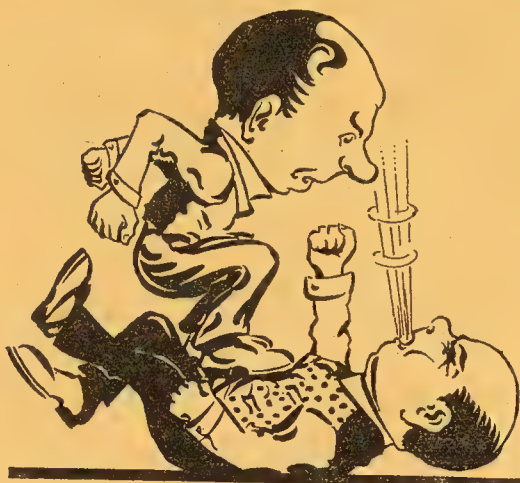
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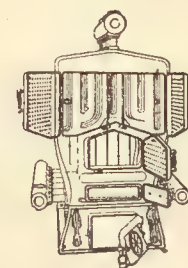
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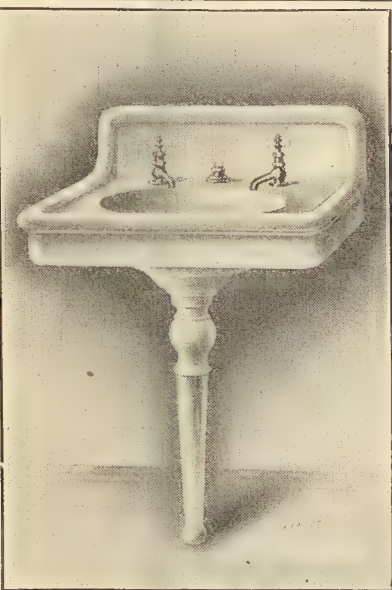


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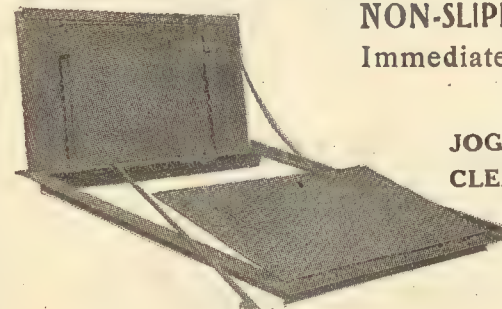
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Vol. XXIX., No. 46.

PHILADELPHIA, WEDNESDAY, NOVEMBER 18, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores and Residence (alt. and add.), southwest corner Gideons and Wood streets. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, Wm. A. Daggett, of Friteth and Market streets, Philadelphia. Brick, 3 stories, 10x10 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing. Plans in progress.

Stores and Residences (2) (alt. and add.), 2100 North Warnock street. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x28 feet, slag roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Residence, Germantown, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Mifflin W. Jones, 229 Church lane, Germantown. Stone, 2½ stories, 25x43 feet, wing 21x18 feet, shingle roof, hardwood floors (heating and electric work reserved). Architects taking bids due November 20th. The following are figuring: F. C. Herring, 447 Queen lane; W. J. Cowell, 943 East Cheltenham avenue; R. W. Neff, 6610 Germantown avenue; Moore & Graham, 622 West Johnson street; H. H. Cluck, 170 East Walnut lane; E. W. Clifford, 107 Queen street; Geo. C. Fossel, 128 East Cheltenham avenue; Charles Johnson, 5701 Boyer street; McClintock & Weaver, 24 Philhellena street; L. D. Stites, 142 Herman street; J. H. Walters, 168 East Walnut lane; F. & L. Davis, Thirteenth and Nedro streets, Oak Lane, Philadelphia.

Residence and Garage, 4322 North Broad street, Philadelphia. Architect, Carl P. Berger, Penn Square Building, Philadelphia. Owner, Mrs. Annie K. Ledig, 1705 Allegheny avenue, Philadelphia. Brick, 3 stories, 25x83 feet, slag and tile roof, hot water, heating, electric lighting, oak floors. Architects taking bids November 19th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; H. P. Schneider, 3713 Old York road; Geo. A. Boyd, Twenty-fifth and Willow Grove avenue; Burd P. Evans Co., Thirteenth and Wallace streets; F. Elvidge & Sons, 5522 Germantown avenue; A. L. Fretz & Sons, 1222 Chancellor street; Ketcham-McQuade, 1029 Brown street; P. Haibach Const. Co.,

Twenty-sixth and Thompson streets; A. Raymond Raff, 1635 Thompson street.

Residences (4), Longshore and Walker streets, Philadelphia. \$12,000. Architect, private plans. Owner, Edward Rieben, 2632 West Cumberland street, Philadelphia. Brick, 2 stories, slag roof, hot-air heating, will take sub-bids in two weeks.

Garage, 6419 Sherwood road, Overbrook, Philadelphia. Architect, Chas. E. Oelschlager, Harrison Building, Philadelphia. Owner, Joseph C. Heymann, Land Title Building, Philadelphia. Stone, 1½ stories, shingle roof, hot water heating, electric lighting (gasoline storage system reserved). Architect has received bids.

Residences (270), Fifth and Shunk streets, Philadelphia. Architect, private plans. Owner, Geo. W. Shissler, Eleventh and Wolf streets, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, steam heating, hot air heating, electric lighting, oak floors. Owner taking sub-bids.

Sunday School Building, Pickin and Reltor streets, Roxborough. Architect, private plans. Owner, Talmage Reformed Church, care Geo. Krohn, 434 Roxborough avenue. Brick and stone, 1 story, 52x56 feet, slag roof, steam heating, electric lighting. Owners taking bids due November 18th. C. M. Swartley, 427 Hermitage street, Roxborough, Pa., is figuring.

Residence, 3950 North Broad street, Philadelphia. Architect, Frank V. Nickels, Harrison Building, Philadelphia. Owner, Harry Scheiry, 3941 North Broad street, Philadelphia. Brick, 2½ stories, 16x56 feet, slag roof, vapor vacuum heating, electric lighting, oak floors. Architect has received bids.

Parish House (Completion), Sixty-first avenue, Philadelphia. Architect, Geo. T. Pearson, 427 Walnut street, Philadelphia. Owner, St. George's P. E. Church, Sixty-first and Cedar avenue, Philadelphia. Stone, 2½ stories, 35x70 feet, slate roof, electric lighting (heating, reserved). Architect has received bids.

Apartment Houses (2), Queen Lane Station, Pa. Architect, Oliver Randolph Parry, 1631 Chestnut street, Philadelphia. Owner Robert

T. Mitchell, 6206 Germantown avenue, Philadelphia. Brick, 2 stories, 18x78 feet, slag roof, hot water heating, electric lighting, oak floors. Owner taking bids. Jacob Myers & Sons, Witherspoon Building, Philadelphia, is figuring.

Dairy, Forty-eighth and Parrish streets, Philadelphia. Architects, Shore & Dodge, 607 Chestnut street, Philadelphia. Owner, Robert E. Powell, 884 North Forty-eighth street, Philadelphia. Brick, steel and terra cotta and concrete, 3 stories, 80x125 feet, slag roof, steam heating, electric lighting. Plans completed. Architects will take bids in one week.

Residence, Horter street, Germantown, Philadelphia. Architects, Savery & Savery, Stephen Girard Building, Philadelphia. Owner, Horace M. Potts, 147 East Coulter street, Germantown. Stone, 2½ stories, slate roof, hardwood floors (heating and electric work reserved). Architects taking bids, due November 23rd. The following are figuring: H. E. Grau Co., 1707 Sansom street; Pringle Borthwick, 8018 Germantown avenue; Wm. C. Wright, 22 Harvey street; Wm. J. Gruhler Co., 219 High street (E); Stacy Reeves & Sons, 2011 Market street; A. L. Fretz & Sons, 1222 Chancellor street; F. L. Hoover & Sons, 1023 Cherry street; Roydhouse-Arey Co., Fidelity Building; H. E. Baton, Twelfth and Sansom streets; I. A. Dunkelberger, 71 East Herman street; R. M. Peterson, 5250 Wakefield street; Samuel Harting, 20 East Johnson street, all of Philadelphia.

Stores and Apartments (3), Oxford Pike, near Frankford avenue, Philadelphia. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, George T. Sale, Bailey Building, Philadelphia. Brick, 3 stories, 60x70 feet, slag roof, steam heating, electric lighting. Architects taking bids, due November 21st. The following are figuring: George F. Pawling & Co., Broad and Vine streets; McCloskey & Bahls, Hale Building; Philip Haibach Const. Co., Twenty-sixth and Thompson streets; George R. Osborne, 5017 Willow street, Frankford, Philadelphia; Harry A. Smink, 5320 North Twelfth street,

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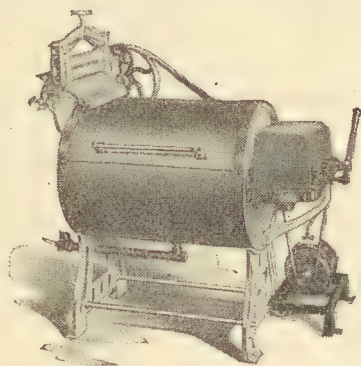
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Brokers' Offices (alts.), 1418 Walnut street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, George A. Huhn & Sons, Land Title Building, Philadelphia. Consists of letting up first floor for brokers' offices, decorating, marble work, fixtures, electric lighting. Architect taking bids, due November 19th. The following are figuring: A. S. Tourison, 1001 Chestnut street; Cramp & Co., Denckla Building; Geo. F. Payne & Co., 401 South Juniper street; George A. Fuller Co., Morris Building, all of Philadelphia.

Church, Sixtieth and Westminster avenue,

Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Gethsemane Lutheran Church, Rev. J. H. Main, 1225 North Sixtieth street, Philadelphia. Stone church, 1 story, 48x82 feet, Sunday School, 30x60 feet, parsonage 17x60 feet, slate roofs, steam heating, electric lighting. Architect ready for bids.

Inn, Thirteenth and Ridge avenue, Philadelphia, \$20,000. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, John F. Betz estate, 415 Callowhill street, Philadelphia. Brick, 3 stories, 105x57 feet, slag roof, steam heating, electric lighting, tile work. Plans about completed. Architect will take bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), Torresdale, Philadelphia. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, Geo. R. Bower, Grant avenue and Minor street, Torresdale, Pa. Stone, 1 story, copper roof. Contract awarded to N. K. Freas, Andalusia, Pa.

Park Improvement, Fifty-second and Pine streets (Black Oak Park), Philadelphia. \$6,507. Architects, private plans. Owner, Department of Public Works, Bureau of City Property, City Hall, Philadelphia. Consists of new cement pavement. Contract awarded to Conan & Mellon, 1345 Arch street, Philadelphia.

Garage (add.), Gross street, near Vine street, Philadelphia. \$1,000. Architect, Durham Brothers, Heed Building, Philadelphia. Owner, Joseph Cancelmo, 6331 Vine street, Philadelphia. Brick, 1 story, 30x25 feet, slag roof, hot water heating, electric lighting. Contract awarded to Tony Kennedy, 319 North Sixty-fourth street, Philadelphia.

Residence, 552-554 Leverington street, Manayunk, Pa. \$20,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Peter Liebert, Manayunk ave-

nue, Manayunk, Philadelphia. Brick and plaster, 3 stories, 26x64 feet, shingle roof, steam heating, electric lighting, hardwood floors. Contract awarded to W. H. Eddleman & Sons, 453 Green Lane, Roxborough, Philadelphia.

Telephone Exchanges (2) Fifty-fourth and Woodland avenue and Fifty-second and Lancaster avenue, Philadelphia. Architects, private plans. Owner, Bell Telephone Company, Thirteenth and Arch streets, Philadelphia. Consists of new fire escapes and fire doors. Contract awarded to F. W. Van Loon, Denckla Building, Philadelphia.

Garage, Fifty-second and Filbert streets, Philadelphia. Architect, J. D. Allen, 908 Chestnut street, Philadelphia. Owner, Wm. H. Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, 2 stories, 69x110 feet, slag roof, steam heating, electric lighting. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Armory (alt. and add.), 4111 Mantua avenue, Philadelphia. Architect, P. H. Johnson, Land Title Building, Philadelphia. Owner, State Armory Board, Harrisburg, Pa. Brick, 2 stories, tin roof, hot water heating, electric

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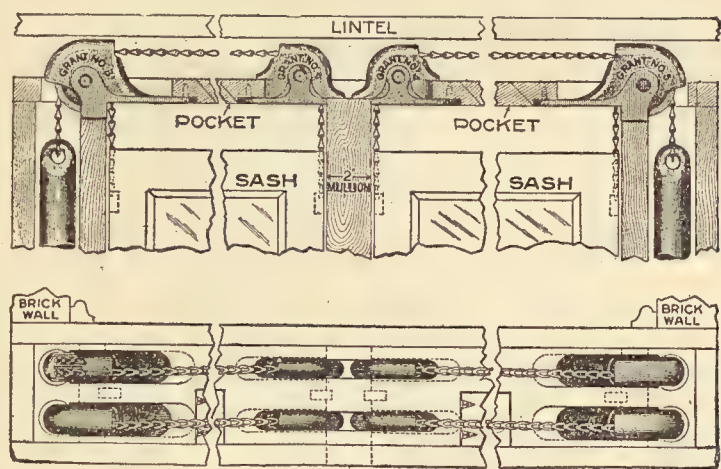
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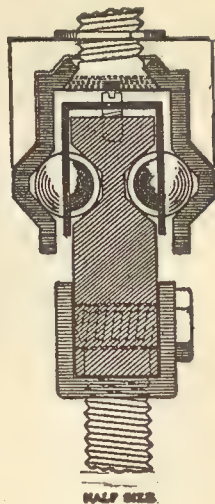
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lighting, metal lath, composition floors. Contract awarded to McClockey-Bahls Company, Hale Building, Philadelphia.

Garage (alt. and add.), Frankford avenue and Somerset streets, Philadelphia. Architects, Guy King & Company, 1513 Walnut street, Philadelphia. \$1,800. Owners, Jacob Strecker, on premises. Brick, 2 stories, 20x32 feet, slag roof, electric lighting, hot water heating. Contract awarded to Wm. Yost, 2751 Frankford avenue, Philadelphia.

Church (alt. and add.), Bridge and Melrose streets, Bridesburg, Pa. Architect, Geo. Nattress & Sons, Twelfth and Walnut streets, Philadelphia. Owner, St. Stephen's P. E. Church, care Rev. W. Price, 5128 Melrose street, Bridesburg, Philadelphia. Stone, 1 story. Consists of interior alteration and addition. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Residences (2), Hermit street and Walnut Lane, Germantown. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, Thomas J. Collins, 150 West Hortter street, Germantown. Brick, 2 stories, 15x40 feet, slag roof, hot air heating, electric light-

ing. Stokes Bros., 6723 Musgrave street, Germantown, have been awarded contract.

Garage and Shop, 158 North Twenty-second street, Philadelphia. \$11,000. Architect, P. S. Tyre, 1509 Arch street, Philadelphia. Owner, Jennie Fryman, 168 North Twenty-second street, Philadelphia. Brick, 2 stories, 51x86 feet, slag roof, steam heating, electric lighting. Contract awarded to Mitchell Brothers, 2125 Race street, Philadelphia.

Store and Office (alt. and add.), 5717 Germantown avenue. \$4,400. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Walter T. Crowder Company, on premises. Brick, 2 stories, slag roof (heating and lighting, reserved). Contract awarded to W. C. Wright, 22 Harvey street, Germantown.

Fire House (alt. and add.), Third and Fairmount avenue, Philadelphia. \$1,094. Architect, Ed. A. Crane, City Hall, Philadelphia. Owner, Department of Public Safety, City Hall, Philadelphia. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to F. Roe Searing, Perry Building, Philadelphia.

PENNSYLVANIA

Construction News

Stores and Apartments (alt. and add.), Carlisle, Pa. \$10,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, J. Wilson Swartz and E. H. Pfeffer, Carlisle, Pa. Brick, 3 stories, 26x80 feet, steam heating, gas and electric lighting, hardwood floors, waterproofing and dampproofing. Architect taking bids due November 23rd. The following are figuring: H. A. Lackey, James Porter and Hemminger Brothers, all of Carlisle, Pa.

Twin Residence, Ashbourne, Pa. Architects, McCormick & McCormick, 1011 Chestnut street, Philadelphia. Owner, Cyrus T. Smith, Ashbourne, Pa. Rough cast, 2½ stories, 30x40 feet, shingle roof or slate roof, hot water heating, electric lighting. Architects have received bids.

Fraternity House, State College, Pa.

Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, Phi Gamma Delta, State College, Pa. Brick, 2½ stories, 25x100 feet. Plans about completed. Architects will soon take bids.

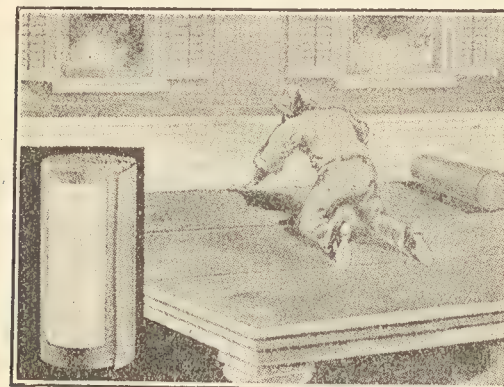
Almshouse, York, Pa. \$450,000. Architect, B. F. Willis, 10 West Market street, York, Pa. Owner, State Board of Public Charities. Care Francis J. Torrence, Pittsburgh, Pa. Brick, 1, 2 and 3 stories. Consists of a group of buildings, administration building, hospital building, cottages, power house, laundry, etc. Plans in progress.

Residence, Newport, Pa. \$25,000. Architect, C. Harry Kain, Arcade Building, Harrisburg, Pa. Owner, David Gring, Newport, Pa. Stone, 3 stories, 50x60 feet, tile roof, vapor heating, electric lighting, hardwood floors, tile work. Plans in progress.

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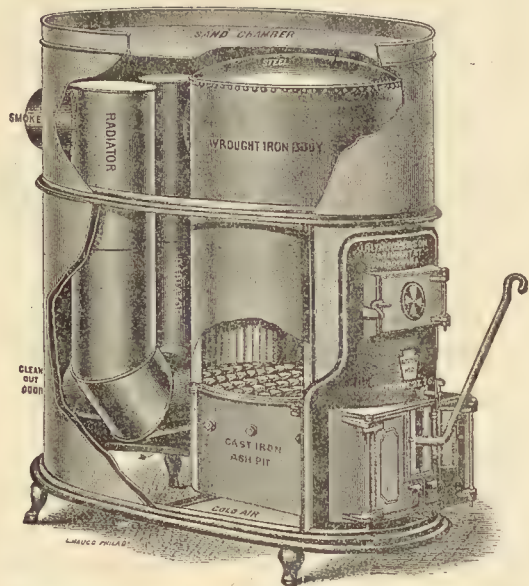
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Residence, Harrisburg, Pa. \$20,000. Architect, C. Harry Kain, Arcade Building, Harrisburg, Pa. Owner, name withheld. Stone, 2½ stories, 30x50 feet, tile roof, vapor heating, gas and electric lighting, hardwood floors, tile work, metal lath, waterproofing and dampproofing. Plans in progress.

Residences (2), Lemoyne, Pa., \$5,500. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, H. B. Witman, Harrisburg, Pa. Brick, 2½ stories, 17x38 feet each, slate roof, steam heating, gas and electric lighting, hardwood floors. Plans in progress.

Garage and Conservatory, Harrisburg, Pa., \$5,000. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owner, A. C. Stamm, Thirteenth and Ruse avenue, Harrisburg, Pa. Brick, steel and concrete, 2 stories, 28x38 feet, tin or composition roof, steam heating, electric lighting, concrete floors. Plans in progress.

Residence (alt. and add.), Bowmansdale, Pa., \$3,000. Architect, C. Harry Kain, Arcade Building, Harrisburg, Pa. Owner, Mrs. Lillian Campbell Bratton, Bowmansdale, Pa. Stone, 2 stories, 33x36 feet, tin roof, steam heating, dampproofing. Owner taking sub-bids.

Residence (alt. and add.), Newport, Pa., \$3,500. Architect, C. Harry Kain, Arcade Building, Harrisburg, Pa. Owner, David Gring, Newport, Pa. Frame, 2 stories, steam heating, electric lighting, hardwood floors, tile work. Owner is taking sub-bids.

Residence (alt. and add.), Villanova, Pa. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, T. Wistar Brown, Villanova, Pa. Brick, 2½ stories, 40x70x26 feet, shingle and slag roof (hot air heating, electric lighting and mill work reserved). Architects taking bids, due November 28th. The following are figuring: George & Borst, 277 South Eleventh street; Stacy Reeves & Sons, 2011 Market street; John Duncan, 920 Walnut street, all of Philadelphia; Gray Brothers, Rosemont, Pa.; Wolf & Dilworth, Bryn Mawr, Pa.

Library, Wallingford, Pa. Architect, Robert Holland, Moylan, Pa. Owner, Helen K. Furness Free Library, Wallingford, Pa. Stone, 1 story, 21x42 feet, shingle roof, steam heating, electric lighting. Architect taking bids, due November 18th. The following are figuring: James B. Flounders, 1329 Arch street, Philadelphia; George Tipping, Huntingdon Valley, Pa.; Baker Brothers, Media, Pa.; Herbert Walton, Moylan, Pa.

Garage, Black Horse Farm, near Media, Pa. Architect, D. Knickerbacker Boyd, Fifteenth and Walnut streets, Philadelphia. Owner, Allen Cunningham, Media, Pa. Hollow tile and plaster, 1 story, 27x45 feet, shingle roof, electric lighting (heating reserved). Architect has received bids.

Residence and Garage, Haverford, Pa. Architects, Martin & Kirkpatrick, 1001 Chestnut street, Philadelphia. Owner, Walter Clark, Jr., Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 32x50 feet, shingle roof, electric lighting, oak floors (heating reserved). Architects have received bids.

Cold Storage (alt. and add.), Scranton, Pa. Architect, Edw. Langley, Connell Building, Scranton, Pa. Owners, Lackawanna Cold Storage Co., Scranton, Pa. Brick, steel and concrete, 3 stories, slag roof. Architect taking bids. James G. Doak & Co., Crozer Building, Philadelphia, is figuring.

Stable, Bristol, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Joseph R. Grundy, Bristol, Pa. Concrete, 1 story, 30x68 feet, slag roof. Owner taking bids.

Residence (alt. and add.), Wayne, Pa. Architect, E. D. Salter, Parkside and Wynnefield avenues, Philadelphia. Owner, Charles A. Wentworth, care of architect. Frame, 2½ stories, shingle roof, electric lighting, canvas roof. Architect has received bids.

Town Hall (alt.), Womelsdorf, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, Borough of Womelsdorf. Brick, 2 stories, 70x40 feet, steam heating, electric lighting. Plans in progress.

Residence, Riverside Park, Pa., \$3,500. Architect, Wayne High, 416 Penn street, Reading, Pa. Owner, Dr. I. Shoemaker, 19 South Ninth street, Reading, Pa. Stone, 1 story, 56x29 feet, asphalt shingle roof, electric lighting, heating undecided. Architect will take sub-bids.

School, Myerstown, Pa., \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, Board of Education, E. L. Bleistein, Secretary, Myerstown, Pa. Stone, 2 stories, 140x84 feet and 20x75 feet, slag roof, slate blackboards, metal lath, safety treads (heating and electric work separate bids). Owners taking revised bids, due November 20th. The following are figuring: F. W. Van Loon, Denekla Building; F. Roe Searing, Perry Building; Berry-Goodwin Co., Drexel Building, all of Philadelphia; J. B. Trexler, 165 West Windsor street, Reading, Pa.; Adam Spatz, Wernersville, Pa.; Isaac Hook, Myerstown, Pa.; George H. Boyer, Lebanon, Pa.; C. W. Strayer, Harrisburg, Pa.; J. E. Funk, Cleona, Pa.

Y. M. C. A., Waynesboro, Pa. Architects, Shattuck & Hussey, Chicago, Ill. Owners, Y. M. C. A., care of E. Stoner, Waynesboro, Pa. Brick, steel and concrete, 4 stories, 75x120 feet, tile and composition roof, steam heating, electric lightin, metal lath, waterproofing and dampproofing. Architects taking bids, due December 18th. F. Roe Searing, Perry Building, Philadelphia, Pa., is figuring.

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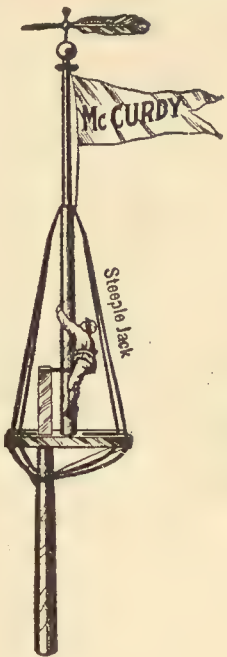
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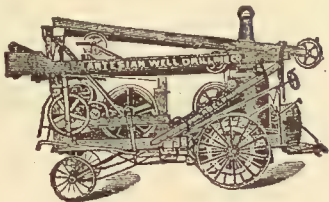
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Philadelphia, Pa.

Hospital, Easton, Pa. Architect, private plans. Owner, Easton City Hospital, Easton, Pa. Hollow tile and plaster, 1 story, 20x34 feet, slate roof, hot water heating, electric lighting, composition floors, dampproofing. Owners taking bids. due November 19th. F. Roe Searing, Perry Building, and Berry-Goodwin Co., Drexel Building, Philadelphia, are figuring.

Residence, Cynwyd, Pa. Architects, Druckennmiller & Williams, Land Title Building, Philadelphia. Owner, L. Stanley King, Cynwyd, Pa. Stone and frame, 2½ stories, 24x56 feet, wing 16x17 feet. shingle roof, hot water heating, electric lighting, oak floors. Architects have received revised bids.

Sunday School, Harrisburg, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Curtin Heights M. E. Church, Harrisburg, Pa. Stone, 2 stories, slate roof, steam heating, electric lighting. Plans in progress. Architect will take bids in about one month.

Residence, Jenkintown, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner's name withheld. Stone, 2

stories, 35x35 feet, slate roof, hot water heating, electric lighting. Architect taking approximate bids, due November 20th. The following are figuring: Specht & Sperry, Heed Building; F. T. Mercer Co., 1706 DeLancey street; William H. Carr, 6004 Germantown avenue, all of Philadelphia, and Fesmire & Mitchell, Glenside, Pa.

Stores and Apartments, Ardmore, Pa. Architect, H. L. Reinhold, 1309 Walnut street, Philadelphia. Owner, J. V. Slaughter, Ardmore, Pa. Brick, 4 stories, 65x90 feet, slag roof, steam heating, electric lighting, oak floors. Architect taking bids, due November 23rd. The following are figuring: Stackhouse & Smith, 3826 Hamilton street, Philadelphia; Frank H. Mahan, Ardmore, Pa.; W. D. Smedley, Narberth, Pa.; W. J. Elliot, Coatesville, Pa.

Farmhouse (alt. and add.), Lyonville, Pa. Architects, Zantinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, J. Hunter Lucas, Kimberton, Pheonixville, Pa. Stone, 2 stories, 30x25 feet, slate roof, steam heating. Plans in progress. Architects will take bids in one week.

PENNSYLVANIA

Contracts Awarded

Court House (alt. and add.), Carlisle, Pa., \$15,000. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Commissioners of Cumberland County, care of R. W. Pfeffer, Carlisle, Pa. Brick, 2 stories, 15x60 feet, steam heating, electric lighting, tin roof, waterproofing and dampproofing, tile work, new plumbing fixtures. Contract awarded to H. A. Lackey, Carlisle, Pa.

Parochial School, York, Pa., \$15,000. Architect, Edward Leber, Hay Building, York, Pa. Brick, 2 stories, 50x100 feet, slate and composition roof (heating and electric lighting reserved). Contract awarded to Casper H. Oerman, 614 West Poplar street, York, Pa.

Bank Building, York, Pa. Architect, Robert Stair, Jr., Small Building, York, Pa. Owner, Guardian Trust Co., York, Pa. Brick and stone, 2 stories, 34x127 feet, composition roof, metal lath (heating, electric work and tile and marble reserved). Contract awarded to S. F. Glatfelter, Small Building, York, Pa.

Residence, Beechwood, Pa. Architects, Karcher & Smith, 34 South Sixteenth street, Philadelphia. Owner, Robert T. Sterrett, Fifty-first and Walnut streets, Philadelphia. Stone and frame, 2½ stories, 26x48 feet, shingle roof, hot water heating, electric lighting, canvas roof, oak floors. Contract awarded to D. R. Evans, Newton Square, Pa.

School Building, Coaldale, Pa., \$28,000. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner, R. C. Church of the

Assumption, Coaldale, Pa. Brick, 2 stories and basement (8 class rooms and auditorium), slag roof, electric lighting. Contract awarded to Stapf & Benfer, Harrisburg, Pa.

Stable and Garage, Villanova, Pa., \$14,000. Architects, Boyd, Coneys & Abel, Fifteenth and Walnut streets, Philadelphia. Owner, George W. Kendrick, 321 Chestnut street, Philadelphia. Stone and terra cotta, 1½ stories, 75x120 feet, slate roof, hot water heating, electric lighting, gasoline storage. Contract awarded to J. D. Lengle, Wayne, Pa.

Engine and Boiler House (add.), Glen Mills, Pa., \$25,000. Architects, Stewardson & Page, 320 Walnut street, Philadelphia. Owner, Glen Mills School, Bailey Building. Brick, 2 stories, 103x110 feet, slate roof, waterproofing. Contract awarded to Roydhouse-Arey Co., Fidelity Building, Philadelphia.

Church Tower, Lebanon, Pa., \$5,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, Lebanon Reformed Church, Lebanon, Pa. Concrete and terra cotta, 20x20x118 feet. Contract awarded to D. Buffamoyer, Lebanon, Pa.

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

NEW JERSEY Construction News

Garage, Atlantic City, N. J. \$16,000. Architect, Vivian B. Smith, Sheen Building, Atlantic City, N. J. Owner, name withheld. Concrete and brick, 2 stories, 54x93 feet, tile or inlaid slate roof, steam heating, electric lighting, concrete floors, dampproofing and waterproofing. Plans in progress.

Residence (alt. and add.), Atlantic City, N. J. \$6,000. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, John Burt, 200 Pacific avenue, Atlantic City, N. J. Brick and frame, 3 stories, 34x34 feet, asbestos shingle roof, hot water heating, gas and electric lighting, tile work. Plans in progress.

Residences (2), Ventnor, N. J. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, John O. Wilson, Fourth and Market streets, Camden, N. J. Frame, 3 stories, slate roof, hot water heating, gas and electric lighting. Architect has received bids.

Bungalow, Ventnor, N. J., \$4,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City, N. J. Owner, Jules Cohen, 4705 Atlantic avenue, Atlantic City, N. J. Brick and stucco, 1½ stories, 36x40 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors. Architect taking bids due November 18th. The following are figuring: H. G. Scull, Sheen Building; C. S. Corson, 1318 Atlantic avenue; Clayton E. Shappell, 4803 Ventnor avenue, all of Atlantic City, and Alex. W. Dick, Ventnor, N. J.

Post Office, Morristown, N. J. Architect, E. O. Wenderoth, Washington. D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick and stone, 2 stories, 91x82 feet, tile roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, safety treads. Owner taking bids due December 5th. The following are figuring: Wells Const. Company, Witherspoon Building; Chas. McCaul Company, 1713 Sansom street; J. E. & A. L. Pennock, Land Title Building; H. L. Brown, 1714 Sansom street, Philadelphia.

Factory, Millville, N. J. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Caloris Company, care Mr. Fredericks, 2110 West Allegheny avenue, Philadelphia. Brick, 1 story, 70x160 feet, slag roof, steam

heating, electric lighting. Revised plans in progress.

Store Building (alt. and add.), 532 Federal street, Camden, N. J. Architect, private plans. Owner, Sig. Schoenagle, on premises. Stone, 1 story, 20x18 feet, slag roof, steam heating, electric lighting. Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Office and Garage, 503 Market street, Camden, N. J. Architect, private plans. Owners, Stackhouse & Kramer, 522 Market street, Camden, N. J. Brick and terra cotta, 3 stories, 40x100 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to Mockett Construction Co., Sixth and Market streets, Camden, N. J.

Residence, 1437 Broadway, Camden, N. J. Architect, private plans. Owner, Dr. H. I. Goldstein, 1441 Broadway, Camden, N. J. Brick, 2 stories, 15x56 feet, slag roof, hot water heating, gas and electric lighting. Contract awarded to Hockett Construction Co., Sixth and Market streets, Camden, N. J.

Residences (7), Polk avenue, Camden, N. J. Architect, private plans. Owner, Emil Rieder, Haddon Heights, N. J. Brick, 2 stories, 14x38 feet each, slag roofs, hot air heating, gas lighting. Contract awarded to Robert Schaal, 2801 Wayne avenue, Camden, N. J.

Residence, 934 North Thirty-fourth street, Camden, N. J. Architect, private plans. Owner, L. Perrott, 731 Florence street, Camden, N. J. Frame, 2 stories, 14x40 feet, tin roof, hot air heating, gas lighting. Contract awarded to Robert Schaal, 2801 Wayne avenue, Camden, N. J.

Residences (2), Trenton, N. J. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, Thomas Keag, Trenton, N. J. Frame, 2½ stories, 25x44 feet, tin roof, gas lighting, heating undecided. Plans in progress. Architect will take bids in one week.

Garage, Trenton, N. J., \$4,000. Architect, J. Osborn Hunt, Interstate Telephone Building, Trenton, N. J. Owner, City of Trenton, Department of Water, City Hall, Trenton, N. J. Brick, 1 story, 58x64 feet, slag roof, steam heating, electric lighting, concrete floors, waterproofing and dampproofing. Owners taking bids, due November 20th.

NEW JERSEY Contracts Awarded

School, Stone Harbor, N. J. \$10,630. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, Board of Education, Stone Harbor, N. J. Brick and plaster, 2 stories, 28x69 feet, asbestos shingle roof, metal lath, metal ceilings, electric lighting, slate blackboards. Contract awarded to Larson Contracting Company, Stone Harbor, N. J.

Church, Audubon, N. J. \$20,000. Architect, John H. Mowers, 3110 Columbia avenue, Philadelphia. Owner, Holy Trinity Evangelical Lutheran Church, care of Rev. Wm. H. Harding, Audubon, N. J. Stone, 1 story, 60x39 feet, slate roof, gas and electric lighting, metal lath (heating, reserved.) Contract awarded to Alex. Chambley, 243 South Tenth street, Philadelphia.

Picture Theatre, Paulsboro, N. J., \$6,000.

Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, J. L. Bailey, Paulsboro, N. J. Brick and cement blocks, 1 story, 34x110 feet, asbestos shingle roof, steam heating, electric lighting, cement floors, metal lath. Plans in progress.

Residences (2), Camden, N. J. Architect, private plans. Owner, M. J. Jubanzik, 607 North Sixth street, Camden, N. J. Brick, 2 stories, 14x44 feet each, slag roof, hot air heating, gas lighting. Owner taking sub-bids.

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MARYLAND Construction News

Arcade Building (alt. and add.). South street near German street, Baltimore, Md. \$15,000. Architect, E. H. Glidden, Maryland Casualty Building, Baltimore. Owner, Arcade Building Co., on premises. Concrete, steel and glass, steam heating, electric lighting, tile work. Architect taking bids. The following are figuring: Edward Brady & Son, Cathedral and Howard streets; West Construction Co., Knickerbocker Building; H. H. Maclellan, 15 East Fayette street; C. L. Stockhausen, Gay and Water streets; Samuel Spreat, 203 North Pine street; W. O. Pierson, 1306 East Federal street, all of Baltimore, Md.

Hotel (rebuilding), Hagerstown, Md. Architect not yet selected. Owner, Hamilton Estate, Hagerstown, Md. Brick, 4 stories, slate roof, steam heating, electric lighting, tile work. Owners will soon select architect.

Factory (add.), Federal street and Guilford avenue, Baltimore, Md. \$5,000. Architects, Callis & Callis, 2520 Kennedy avenue, Baltimore. Owners, Maryland Brass and Metal Co., on premises. Brick, 2 stories, 46x78 feet, slag roof, steam heating, electric lighting, concrete floors. Owners taking bids. G. W. Tovell, Eutaw and Dolphin streets, Baltimore, Md., is figuring.

Residences (2), Edmondson avenue and Nottingham street, Baltimore, Md., \$10,000. Architect, J. R. Gerwig, 15 East Fayette street, Baltimore, Md. Owner, G. C. Ruppel, 332 Park avenue, Baltimore, Md. Brick, 2½

stories, slate roof, steam heating, electric lighting. Architect taking bids. The following are figuring: Henry S. Rippel, 7 Clay street; J. Henry Smith, 1426 Light street; Charles H. Gerwig, 2106 West North avenue, all of Baltimore, Md.

Residences (2), Cedar avenue, near Chestnut avenue, Baltimore, Md., \$16,000. Architect, George R. Morris, Gunther Building, Baltimore, Md. Owner, Duplex Cottage Co., care of architect. Frame, 2 stories, 28x28 feet each, slate roof, steam heating, electric lighting. Architect is taking sub-bids.

Theatre (alt. and add.), 814-816 Light street, Baltimore, Md. \$15,000. Architect, private plans. Owner, Joseph Brodie, 814 Light street, Baltimore, Md. Brick and stucco, 2 stories, tin roof, steam heating, electric lighting. Owner taking sub-bids.

Residences (16), Greenmount avenue, Baltimore, Md. \$80,000. Architect, private plans. Owner, H. W. Cook, Roland Park, Baltimore, Md. Brick, 2 stories, 24x42 feet, slate roof, steam heating, electric lighting. Owner will sub-let all contracts.

Residences (21), Forrest View avenue, near Belair Road, Baltimore, Md. \$19,500. Architect, private plans. Owner, Overlea Realty Company, Belmar, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Owners are sub-letting all contracts.

Sansom street; Irwin & Leighton, 126 North Twelfth street, all of Philadelphia.

Store House, Navy Yard, Washington, D. C. Architect, private plans. Owner, U. S. Government, Bureau of Yards and Docks, Washington, D. C. Brick, steel and concrete, 5 stories, 150x250 feet, slag roof, steam heating, electric lighting, waterproofing and damp-metal sash and frames, rolling steel doors. Owners taking bids due December 12th Metzger & Fisher, Denckla Building; Jas. G. Doak & Company, Crozer Building; Wells Const. Company, Witherspoon Building; Edw. Fay & Sons, 2 South Mole street; Alex. Chambley, 243 South Tenth street, all of Philadelphia, are figuring.

High School (Colored), Washington, D. C. D. C. Owner District Commissioners, District Building, Washington, D. C. Brick, stone and steel, fireproof, 3 stores and basement, 149x401 feet, slag roof (heating and lighting, reserved), metal lath, waterproofing and damp-proofing, enamel brick, safety treads. Owners taking bids due November 19th. In addition to those previously reported. F. Roe Searing, Perry Building, Philadelphia, is figuring.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

NOTICE TO CONTRACTORS.

NEW COUNTY BUILDING FOR NEW CASTLE COUNTY AND NEW MUNICIPAL BUILDING FOR THE CITY WILMINGTON.

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commissions in the Church Building, at the corner of Market and Tenth sts., in the City of Wilmington, Delaware, up to 11 o'clock A. M. (Eastern time) on the first day of December, 1914, for the Interior Marble, for the Interior Cut Stone, for the Bronze Work, for the Miscellaneous and Ornamental Iron, for the Painting and Finishing, for the Hollow Metal Doors, for the Finished Hardware, for the Brick Paving, for the Sidewalks, and for the Revolving Doors, entering into the construction and completion of the new County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King street and French street and between Tenth street and Eleventh street, in the City of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings, for each department or class of work above listed.

Each proposal for Interior Marble shall be accompanied by a certified check or cash deposit in the amount of Four Hundred Dollars (\$400).

Each proposal for Interior Cut Stone shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars (\$300).

Each proposal for Bronze Work shall be accompanied by a certified check or cash deposit in the amount of Six Hundred Dollars (\$600).

Each proposal for Misc. & Ornamental Iron shall be accompanied by a certified check or

MARYLAND Contracts Awarded

Garage, Druid Hill Park, Md. Architect, A. L. Forest, Law Building, Baltimore, Md. Owner, W. C. Frederick, 1224 Greenmount avenue, Baltimore. Brick, 2 stories, slate roof, steam heating, electric lighting, concrete floors. Contract awarded to Gladfelter and Chambers, 2072 Woodberry avenue, Baltimore, Md.

Residence, Carlisle and Wilkins avenue, Baltimore. \$7,000. Architect, Henry J. Finley, St. Paul and Saratoga streets, Baltimore. Owner, George E. Ijams, Equitable Building, Baltimore. Frame, 2½ stories, 26x34 feet, slate roof, steam heating, electric lighting. Contract awarded to Henry A. Knott, 1326 Eden street, Baltimore, Md.

Armory, Belair, Md. \$23,000. Architect, J. B. Hamme, Wiest Building, York, Pa. Owners, Maryland State Armory Board, Baltimore, Md. Brick, stone trimmings, 2 stories, 65x145 feet, slate and slag roof, electric lighting, steam heating, metal lath, waterproofing and dampproofing. Contract awarded to L. J. Whalen, Clayton, R. F. D., Belair, Md. (Note change.)

Home (add.), 1014 Valley street, Baltimore, Md. \$3,500. Architect, John K. Stack, 12 East Lexington street, Baltimore, Md. Owners, Home of the Sisters of St. John's Church, on premises. Brick, 3 stories, 17x16, slag roof, steam heating, electric lighting, tile work. Contract awarded to Walter Copping, 1418 Argyle avenue, Baltimore, Md.

Miscellaneous Construction News

Normal School, Fairmont, W. Va. \$100,000. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owner, West Virginia State Normal School, Fairmont, W. Va. Brick, stone and terra cotta, fireproof, 2 stories, 200x68 feet, slag roof, electric lighting, blown air and direct steam heating. Plans in progress. Architect will take bids in about six weeks.

Memorial Amphitheatre and Chapel, Arlington, Va. \$750,000. Architects, Carrere

& Hastings, 225 Fifth avenue, New York City, Owner, U. S. Government, Col. W. W. Hart, Washington, D. C. Stone and steel, 1 and 2 stories, 200x330 feet and 85x100 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Owners taking bids due December 7th. The following are figuring: Chas. McCaul Company, 1713 Sansom street; J. E. & A. L. Pennock, Land Title Building; Jas. G. Doak & Company, Crozer Building; Doyle & Co., 1519

cash deposit in the amount of five hundred (\$500).

Each proposal for Painting & Finishing shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars (\$300).

Each proposal for Hollow Metal Doors shall be accompanied by a certified check or cash deposit in the amount of Eight Hundred Dollars (\$800).

Each proposal for Finished Hardware shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for brick paving shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for Sidewalks shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars (\$200).

Each proposal for Revolving Doors shall be accompanied by a certified check or cash deposit in the amount of One Hundred Dollars (\$100).

The Commission to reserve the right to reject any or all proposals received, if they con-

sider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty per cent. (50 per cent.) of the amount of the contract.

On and after November 17, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of Fifty Dollars (\$50), this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before December 15, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY.

Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

D. Wittenberg (O), 1751 North Marshall street. Cost, \$8,000. Two stores and dwellings, brick 2 stories, 15x30 feet, Fifth and Lindley avenue. Cost, \$5,000. One store and dwelling.

W. C. Wetherstine (O), 124 East Upsal street. Cost, \$25,000. Ten dwellings, brick, 2 stories, 22x32 feet, Queen and Wakefield streets.

Trustees of rPesbytery (O), Witherspoon Building. H. C. Rea Co. (C), 1027 Wood street. Cost, \$3,000. Residence, stone, 2 stories, 32x32 feet, 10th and Kimball streets.

J. Jamison (O), 2581 East Huntingdon street. Cost, \$7,200. Four dwellings, brick, 2 stories 14x25 feet, 2620 Leverington street. Cost, \$2,200. Store and dwelling.

Ed. Stott (O), 5430 Water street. Cost, \$8,000. Four dwellings, brick, 2 stories, 16x44 feet, Tabor road.

G. H. Chapman (O), 3943 Pensington avenue. Lewis Ahlers, Jr. (C), 4433 Salmon street. Cost, \$7,000. Theatre, brick, 2 stories, 70x100 feet, Second and Loudon streets.

Thos. Collins (O), 150 West Hortter street. Stokes Brothers (C), 6723 Musgrave street. Cost, \$2,400. Two dwellings, stone, 2 stories, 15x30 feet, Hermit Lane.

Keller Brothers (O), Harmon Road. Cost, \$5,000. Two dwellings, 2 stories, 15x40 feet, Gates and Silverwood streets. Cost, \$8,000. Four dwellings.

W. H. Ashton (O), 5618 North Second street. Cost, \$2,200. Store and dwelling, brick, 2 stories, 15x37, Second and Olney streets. Cost, \$2,600. Dwelling and store.

B. D. Nieble (O), 719 Fitzwater street. V. Cerosoli (C), 1231 Christian street. Cost, \$2,100. Dwelling, brick 3 stories, 14x29 feet, 756 South Sixth street.

J. Fryman (O), 168 N. Twenty-second street. Mitchell Brothers (C), 2125 Race street. Cost, \$11,000. Garage and shop, brick, 2 stories, 51x86 feet, 158 North Twenty-second street.

A. Generso (O), 1424 South Tenth street. Cost, \$1,00. Residence, brick, three stories, 13x30 feet, 1005 aLtona street.

J. Rottman (O), 1517 East Wyoming avenue. Cost, \$10,000. Two apartments, brick, 3 stories, 19x44, 612 South Fourth street. Cost, \$6,500. One apartment.

W. E. Storch (O), 7326 Second street pike. Cost, 3,600. Two dwellings, brick 2 stories, 16x40 feet, D and Stanwood streets.

C. B. Sigler (O), 2263 North Twenty-first street. E. J. Kelley (C), Twentieth and Ontario streets. Cost, \$18,000. Apartment, brick, 4 stories, 81x102 feet, Twentieth and Ontario streets.

M. & W. Dixon Paper Co. (O), Manayunk, Philadelphia. Barclay White Co. (C), Perry Building. Cost, \$5,000. Storage, Manayunk, Philadelphia.

A. Sharp (O), 5237 Baltimore avenue. Cost, \$6,000. Garage. Fifty-third and Broomall streets.

W. E. Cooper (O), Allegheny avenue and Trenton avenue. Specialty Eng. Co. (C), Emerald and Cornwall streets. Cost, \$3,900. Shed, Snyder avenue and Dilworth street.

DO IT NOW.

All we have is just this minute
Do It Now.

Find your duty and begin it
Do It Now.

Surely you're not always going
To be "a going to be," and knowing
You must sometime make a showing.
Do It Now.

The darkest hour in any man's life is when
he sits down to plan how to get money with-
out earning it.—Horace Greely.

The prosperous, the great, the wise,
You may have noticed, advertise!

Alterations and Additions

Sheip & Vandergrift, Inc. (O), 814 Lawrence street. W. H. Ellis (C), 344 North Fourth street. Cost, \$1,000. Dwelling, 812 North Lawrence street.

Gulf Refining Co. (O), Morris Building. S. H. Hahn (C), Glenside, Pa. Cost, \$4,000. Garage, Fourth and Allegheny avenue.

J. J. J. H. Schinemel (O), 220 Market street. Jos. Farbestein (C), 908 Walnut street. Cost, \$1,400. Store, 318 Market street.

C. Sweeney (O), 2609 Monmouth street. J. H. Gordan (C), 2314 Lehigh avenue. Cost, \$850. Shed, 2609 Monmouth street.

J. Cancelmo (O), 318 Vine street. Tony Kennedy (C), 319 North Sixty-fourth street. Cost, \$1,060. Garage, Sixty-third and Vine streets.

Girard Estate (O), Lafayette Building. J. S. Cornell & Sons (C), Land Title Building. Cost, \$12,000. Power House, Girard College.

A. Graboyes (O), 1021 North Front street. S. Schultz (C), 920 East Moyamensing avenue. Cost, \$950. Store and dwelling, 1307 North Seventh street.

American Federation of Labor (O), 1312 Filbert street. Doyle & Co. (C), 1519 Sansom street. Cost, \$1,300. Shed, Broad and Spruce streets.

A. E. Webb (O), Fifth and Allegheny avenue. H. Brocklehurst (C), 512 West Norris street. Cost, \$1,400. Fifth and Allegheny avenue.

Rutenian American Citizen Assoc. (O), 822 North Franklin street. T. Hoycey (C), 329 house, 822 North Franklin street.

J. H. Gartside (O), 745 North Fortieth street. Morris Nichols (C), 761 North Fortieth street. Cost, \$1,500. Garage 677 Preston street.

St. Stephen's P. E. Church (O), Bridesburg, Pa. Specht & Sperry (C), Heed Building. Cost, \$800. Church, Bridesburg, Pa.

J. Serencke (O), 4719 Umbria street. C. M. Swartley (C), 6835 Ridge avenue. Cost, \$1,000. Store and dwelling.

J. W. Benson (O), Thirteenth and Cherry streets. The John Baizley Iron Works (C), 514 South Delaware avenue. Cost, \$650. Manufacturing building, Thirteenth and Cherry streets.

S. Buchsbaum & Sons (O), 723 Walnut street. C. Lazaroff (C), 1418 South Sixth street. Cost, \$800. Store and dwelling, 711 Porter street.

H. S. Morris (O), York Road and Cheltenham avenue. W. J. Gruhler (C), 219 High street. Cost, \$1,400. Stable, York road and Cheltenham avenue.

State Armory Board (O), Harrisburg, Pa. McCloskey Bahls (C), Hale Building. Cost, \$8,000. Armory, 4111 Mantua avenue.

Catholic Home (O), Twenty-ninth and Allegheny avenue. J. Myers & Sons Co. (C), Witherspoon Building. Cost, \$8,000. Home, Twenty-ninth and Allegheny avenue.

J. Strecker (O), rFrankford and Somerset streets. W. Yost (C), 2751 Frankford avenue. Cost, \$800. Garage, Frankford and Somerset streets.

G. H. McClatchey (O), Fifty-ninth and Lansdowne avenue. Cost, \$3,000. Garage, Fifty-ninth and Lansdowne avenue.

W. E. Cooper (O), Allegheny avenue and Trenton avenue. Special Eng. Co. (C), Emerald and Cornwall streets. Cost, \$1,375. Office, Snyder avenue and Dilworth street.

Morris Rutberg (O), 867 North Seventh street. L. Goldberg (C), 2322 South Ninth street. Cost, \$26,000. Store and dwelling, Seventh and Fitzgerald streets.

(Continued on page 746.)

The Philadelphia Real Estate Record and BUILDER'S GUIDE

President John Molitor
Vice-President John F. Harbeson
Secretary William C. Stanton
Treasurer Walter Mellor
Directors—Clarence C. Zantzing, John Graham, Jr., Frederick A. Muhlenberg.

Editorial Comment

In the litigation that followed the trial judge divided the cost of the suit between the parties to it, contending that the contract was so loosely drawn and doubtful in its terms that an intelligent construction of its intent was simply not possible. Not satisfied with this Solomonesque disposal of the matter, the builder carried his case on up to the Court of Appeals, where, after a careful inquiry into all of the facts, he was able

* * *

“The entire work was to be done according to said plans and specifications, and upon turning to them, so far as they relate to the skylights, we find they show the openings and iron framework constituting the foundation for five skylights. We also discover certain lines passing across the openings

which indicate that skylight superstructures of some kind were ultimately intended for the building but no sizes, weights, or data are given to guide one, either in their construction or in estimating their cost, except the size of the openings. Had the appellant been forced to construct skylights under the circumstances, he would have been compelled to have either gotten up an additional plan and specifications for his employees to work by, or the city would have had to furnish them, in neither of which cases would they have been constructed according to the plans and specifications on file in the appellee's office at the time the contract was made."

* * *

The case is an interesting example of the expense, delay and misunderstanding that is possible in contracts of the kind where features are shown on the plans without intent that the builder shall construct them and where the language of the contract itself is not made convincingly clear and explicit. In the case here noted the builder acquitted himself, it is true, of the imposed liability, but was enabled to do this only after a long-drawn-out and expensive law suit and after long and tedious delays and loss of time from his business.

* * *

The American Gas Institute and the National Commercial Gas Association have authorized a joint committee, of which William J. Serrill, 1401 Arch street, Philadelphia, Pa., is chairman, to offer a prize of \$150 for the best design of a fireplace heater, burning gas. The competition will close on the 1st of March, 1915, at which time the designs must be in the hands of the chairman of the joint committee. The award will be made by a committee on the recommendation of a jury composed of three members—an architect to be named by the American Institute of Architects, a member of the American Gas Institute and a member of the National Commercial Gas Association.

* * *

New York City is beginning to realize that just so long as a legislature at Albany, made up of members from outside counties, is able to pass laws making it mandatory on New York City to find the money to carry them out she is going to experience trouble in holding her annual budget within reasonable bounds. One of the immediate results of this realization is a strong and growing demand for home rule—that is, the right of the metropolitan city to legislate for herself independently of the remainder of the State. There was a time when to urge such an expedient would bring forth a chorus of holy horror incited by the mere thought of trusting the law-making privilege to the hordes of Tammany. That time seems happily to have passed. Since cities of the first class have gone into the business of regulating the morals, leisure and aesthetic inclinations of the masses, the running expenses have advanced almost to the breaking point. Most any remedy short of opening the treasury to organized looting will now be accepted by

the taxpayer, whose burden has grown to a point threatening the stability of real estate as an investment.

Thanks to Philadelphia's system of providing money for her larger enterprises through the agency of loans covering long periods, this burden is not so acute here as in New York. The budget for 1915 in New York City will approximate \$204,000,000.

* * *

Some months ago there appeared in the pages of "The Guide" a short description of a clever device applicable to a certain class of building. The reference was not paid for, being one of many paragraphs of the kind that we use as a matter of trade interest, ignoring the circumstance that in doing so we are giving the manufacturer a first-class advertisement without charge and that in eight cases out of ten he doesn't show even passing appreciation. Well, here the other day, a phone rang in the office, one of Philadelphia's most prominent builders being the party on the other end of the wire.

"I saw something in 'The Guide,'" he said, "several months back about a nailing device. It struck me at the time as a pretty good thing, but I didn't need it, just then and didn't give it much attention. I've got a job on now where I can use it to big advantage, but I've mislaid the number of your paper which mentioned it, and I haven't been able to find anybody who knows where the device can be had. Would you mind looking the matter up and giving me the name of the manufacturer?"

We looked it up, found it, submitted the desired information and learned yesterday that the manufacturer booked a good big order as the direct result of the free notice given him in these columns. That manufacturer was asked to take space in "The Guide" and advertise the device in question before we used the notice. He declined—on the ground that the device was one that had to be demonstrated to show its value, and that it could not be sold by advertising. What is the moral?

The article that cannot be sold by advertising was never invented, and never will be. Has it occurred to the manufacturer how many dozens of orders similar to that in question he has lost by failing to advertise; how many firms interested, like the buyer in this case, did not take the trouble to look him up, but bought something else "nearly as good" or utilized a less effective contrivance because the device in question was not pressed upon their notice?

The incident is interesting as an illustration of the opportunities that are lost every day by the failure of firms turning out meritorious goods to back up these goods with equally meritorious advertising.

The article that is not advertised is overlooked—"lost in the shuffle." It is trading under a handicap too great to be overcome in present-day competition.

No one suffers from a mean disposition like the fellow who has one.

TERRA COTTA AS RESIDENCE TRIM.

Every brick house has always required a certain amount of cut stone trim. The amount was usually not very large. In fact, it often seemed too little to bother about. Just enough to make trouble; a small jag of cut stone to be ordered and looked after and protected. If all went well—measurements made exactly right, and no mishaps befell the order at the stone yard, in transit or on the job, a nice appearance could be expected, for a time. The white color of freshly cut limestone makes a nice contrast with brickwork.

The trouble is, though, it so soon weathers, stains and blackens. When it gets too bad it can be sand blasted back to its clean whiteness, but that is expensive and so is seldom done.

With the introduction of white enameled terra cotta, architects and builders have been coming more and more to displace cut stone with terra cotta. As trim for brick buildings it seems a little more appropriate to use a burned clay material. The expense is the same or less, and the hard, smooth surface of the terra cotta keeps its brilliant white color indefinitely. Soap and water and a scrubbing brush freshen it up like new at any time.

With the introduction of stock terra cotta this has become the real hurry-up material. Numerous appropriate designs and standard pieces are carried for immediate delivery. This means a good deal to the builder of a small or medium sized brick house. For the more pretentious dwellings specially designed terra cotta is being used. The architects are certainly producing some tasty and distinguished effects.—"American Carpenter and Builder."

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

FASTER SYSTEM

MAXIMUM EFFICIENCY AT MINIMUM COST

ROOFING AND WATER PROOFING

SEND FOR BOOKLET

BENJAMIN FOSTER COMPANY

22nd & SEDGLEY AVE.

PHILADELPHIA PENNSYLVANIA.

If you have any dwellings on hand which are hard to rent, have them wired for Electricity!

Prospective tenants and buyers demand Electric Light now-a-days, not only because it is the best light, but also because of its application to heavy household duties.

We have a special proposition by which already-built houses can be wired on easy terms. For details consult



ALTERATIONS AND ADDITIONS.

(Continued from page 743.)

Max Marcus (O), 1136 North Second street. M. Cother Bros. (C), 1031 Ogden street. Cost, \$850. Store and dwelling, 1138 North Second street.

Philadelphia Evangelistic Association (O), 610 Stock Exchange Building. Jos. Speice (C), 610 Stock Exchange Building. Cost, \$5,000. Tabernacle, Nineteenth and Vine streets.

Dr. Krauskoph (O), 4715 Pulaski avenue. J. Sharp (C), 297 West Haines street. Cost, \$700. Dwelling, 4715 Pulaski avenue.

A. Steinfeld (O), Thirteenth and Cherry streets. D. H. Sharp Co. (C), Heed Building. Cost, \$14,000. Store and manufacturing building, 123 North Thirteenth street.

A. Graboyes (O), 1021 North Front street. E. C. Durell (C), 1713 North Twenty-fourth street. Cost, \$1,980. Store and dwelling, 2613 Frankford avenue.

W. J. Anderson (O), 2111 Orleans street. Cost, \$2,000. Garage, Emerald and Willard streets.

Samuel Morrison (O), 3601 North Fifth street. Cost, \$800. Dwelling, 513 Erie avenue.

M. Simon (O), 1114 Locust street. J. Lever (C), Twelfth and Wallace streets. Cost, \$1,750. Store and dwelling, 2538 Christian street.

A. S. Tourison, Jr. (O), 7014 Boyer street. R. Robson (C), 1827 Naudain street. Cost, \$1,100. Garage, 2407 Federal street.

E. Wirtshoffe (O), 2736 Kensington avenue. A. S. Brown (C), 1901 East Clearfield street. Cost, \$2,000. Store and dwelling, 273 Kensington avenue.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;

We may live without friends, we may live without fads;

But business to-day cannot live without ads.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The twenty-third annual edition of "Hendrick's Commercial Register of the United States for Buyers and Sellers" has just been issued. It is by far the most complete edition of this useful work that has been published. Many new features have been added; thousands of trade names and titles of identification have been inserted and numerous duplications expunged. "The Assistant Buyer," formerly published by the Sullivan System, has been incorporated with it, and the entire work has been thoroughly revised and improved in every detail. This publication contains lists of architects, building and general contractors, steam and hot water heating contractors, concrete steel constructors, steel structural workers, architectural and ornamental iron workers, and many other valuable lists, and it is said to include the names and addresses of manufacturers of every kind of material, machine, tool and supply used in the erection, equipment and furnishing of modern factory and office buildings. It numbers some 1,600 pages and contains about 350,000 names and addresses, with upwards of 45,000 business classifications; 138 pages are required to index its contents. "Hendricks' Commercial Register" is owned and published by S. E. Hendricks Co., Inc., 2 West Thirteenth street, New York City. Price, \$10.00, carriage charges prepaid.

**A new company known as the Clifton Co., capitalized at \$1,000,000, has been organized to promote a new process tile for building construction, glazed without the use of lead. Charles Stegmayer invented the process, and will be active in the company, which will have headquarters at 51 Clinton street, Newark, N. J.

**The Chicago Building Construction Employers' Association has re-elected Charles W. Gindele president of the association. The annual report of the officers of the association indicated a most successful year. The president made a strong appeal for greater co-operation and organization among the members. Secretary Edward M. Craig anticipates a year of harmonious co-operation with the Building Trades Council of the city of Chicago in the settlement of labor disputes by arbitration.

**Despite the fact that the European war has demoralized the export trade in lumber, Michigan lumbermen have commenced the season's logging in the Upper Peninsula, and it is not expected that operations will be curtailed to any extent on that account. There is plenty of help available and timber can be taken from the wood as cheaply as though the export trade were normal.

**Otto E. Goldschmidt, consulting engineer.

has moved his offices from 30 West Thirty-eighth street to 9 East Fortieth street.

**Stanley H. Chadwick, architect, of Cranford, N. J., has opened offices in that village for the practice of his profession.

**Mary E. Kavanagh has recently opened an office at 29 West Thirty-fourth street, New York City, and is conducting an interior decorating business under the name of "Paget."

**The report of the United States Geological Survey indicates that gypsum, the rock that makes plaster of paris, was mined in the United States in 1913, to the extent of over 2,500,000 short tons, an increase of over 98,000 tons over the production of 1912. Total value of gypsum and gypsum products of 1913 was \$6,775,000, compared with \$6,500,000 in 1912. Gypsum sold crude without calcining and used principally as an ingredient in Portland cement and paint and as land plaster, amounted to 463,136 short tons, valued at \$697,000. This is also a substantial increase over the business of 1912. There was an increase of 42,175 tons in the amount of calcined gypsum sold in 1913. About 1,250,000 tons of this amount was used for mixed wall plaster, the so-called cement plaster and hard wall plasters of the building trade.

**President Sturgis, of the American Institute of Architects, has appointed Elmer C. Jensen, Chicago; Wilbur T. Mills, Columbus, and Benjamin Hubbell, Cleveland, to act as advisers to the Lincoln Highway Association.

**William C. Walker, Clarence A. Livingston and Robert G. Brackett have formed a partnership for the practice of architecture, to be known as Walker, Livingston & Brackett, with offices in the Ellwanger & Barry Building, Rochester, N. Y.

**Architects throughout the country are responding splendidly to the appeal recently sent out from the Washington, D. C., headquarters of the American Institute of Architects, for contributions to the war relief fund for the benefit of families of architects, artists and sculptors left in need on account of the European conflict.

**The action of the Federal Grand Jury at Erie, Pa., in indicting thirty-five officials and members of the National Association of Plumbers has created some consternation among the building trades in the Central States. The indictments follow a suit against the Master Plumbers' Organization as a result of an investigation made by Federal agents, who are seeking to establish a violation of the law against fixing the prices of plumbing supplies in restraint of trade. Among those indicted are Charles W. Wilson,

a plumber of Youngstown, president of the Northwestern Division, including New York, Pennsylvania and Ohio; Eb. Ellen, the secretary of the State organization at Cleveland; William McCoach, treasurer of the Northwestern Division, and V. S. Durkin, secretary; A. C. Eynon, of Canton; M. C. Judd, Meadville, Pa.; E. M. Tate, S. S. White and Michael Purtell, of Pittsburgh; James A. Wood, of Toledo; Frank J. Feel, of New York; F. E. Fladd, Rochester, N. Y.; L. R. Hershey, Johnstown, Pa.; Harry Hurd and Fenton Evans, of Connellsville, Pa. These are included among others.

**Ernest F. Guilbert, architect of the Newark Board of Education, will deliver a course of lectures at Teachers' College, Columbia University, on "School Buildings and Their Equipment." The selection of Mr. Guilbert to deliver these lectures is a fitting recognition of his complete knowledge of the subject as well as his ability as a practicing architect.

**The annual convention of the National Builders' Supply Association will be held in Chicago, Ill., February 8-9, 1915. Headquarters at Hotel Sherman.

**The second International Exposition of Safety and Sanitation will be held at the Grand Central Palace, N. Y., December 12 to 19, 1914.

**In the City of New York the Commissioner of Charities has given instructions to develop a special system of fire prevention and life protection in the hospitals and other institutional buildings of his department. The work has been placed in the hands of H. F. J. Porter and A. L. A. Himmelwright, consulting engineers of that city. The Fire Commissioner, who has made a special examination of the fire hazard in the buildings of the Department of Charities, has indorsed the method of treatment of these buildings. The representative heads of the Fire Prevention Bureau, the fire fighting force, are co-operating in working out the details and in the installation of improvements and equipment proposed by them. The work will be pushed as rapidly as possible.

**The International Association of Master House Painters and Decorators of the United States and Canada will meet in annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Corcoran Building, Washington, D. C., chairman of Convention Committee.

**The International Exposition of Inventions will open at the Grand Central Palace, New York City, December 12, and continue until December 19. During the week of the exposition a series of lectures have been planned, which will be delivered by competent authorities, on the interests of American inventors and patentees.

**In reply to a question from an important city of the Southwest as to the best form of fire-escape for a primary school building, Robert D. Kohn favored the horizontal exit and Professor Woolson recommended enclosed stairways, of which there should be two.

Both condemned the ordinary fire-escape for such buildings.

**At the October meeting of the Cincinnati Chapter American Institute of Architects, held at the Business Men's Club, Geo. M. Anderson was elected president; Walter Rapp, vice-president, and Joseph G. Steinkamp, secretary. The chapter will appoint four delegates to represent this city at the annual convention of the American Institute of Architects at Washington, D. C., in December.

**The lumber firm of England, Stetson, Cutler & Co. have sold to an English firm 25,000,000 feet of spruce to be shipped in the next few months. This order is placed in Detroit by reason of the fact that Great Britain is unable at the present time to get timber from the Baltic.

**Mr. A. Lincoln Fechheimer, is directing the work of the Cincinnati Architectural Club on Beaux Arts problems.

**The Montreal Builders' Exchange at a recent meeting decided to appoint a committee to wait on the Minister of Finance with a view of securing more money for building purposes, and to request consideration of the wage scale for all classes affected by the contracting business. The Builders' Exchange has no desire to reduce the scale of wages, but the suggestion that a reduction be made was by reason of an effort on their part to keep the building trade from utter stagnation. The Exchange considered the question of the high cost of builders' supplies and many complaints were made that the prices of these materials are excessive. Many speakers protested against the action of Canadian banks in restricting loans to firms, thus preventing the carrying out of work.

**Fire Commissioner Adamson, of New York City, proposes to submit to the next Legislature of that State a bill the effect of which will be to regard as a public enemy the man whose building burned, and thus endangers the property of his neighbor. This custom has existed for many years in Germany, France and England, and is now developing in this country. By the terms of this bill every person on whose premises there is a fire after he has been warned that he is violating the regulations governing fire prevention, shall pay the expense to which the city is placed in extinguishing the conflagration, and for such loss as his neighbor may suffer.

**The National Brick Manufacturers' Association will hold its annual convention at Detroit, February 14 to 20. William B. Wrexford, of the Detroit Brick Manufacturers' Association, in co-operation with President Eben Rodgers, of Alton, Ill., and Theodore A. Randall, of Indianapolis, constitute the committee of arrangements. The association will also bring to Detroit the National Paving Brick Manufacturers' Association, the National Clay Machinery Association and the American Ceramic Society.

**R. Clipston Sturgis, president of the American Institute of Architects, has issued

a call to architects throughout the country for funds to be used for the relief of the sufferers from the present war in Europe. The treasurer of the fund is C. H. Whitaker, of Washington, D. C.

**A decision by the New York Supreme Court in the case of Thompson & Frohling vs. Marseillaise French Baking Co. is in effect that a corporation is not liable on a contract employing architects to prepare plans for a building of the agreement was not authorized by the Board of Directors, and if the proposed building would involve an expenditure largely in excess of the capitalization of the company. A firm of New York architects brought suit for \$700 as compensation for preparing plans for a building to cost \$125,000. The defendant insisted that the president of its company with whom the contract was made had no authority to make a contract for so expensive a building, when the capital stock was only \$10,000, especially in view of the fact that the land on which it was proposed to erect the building was not the property of the company.

**The Executive Committee of the National Association of Real Estate Exchanges has fixed the dates for the National Convention to be held in Los Angeles, Cal., in 1915. The committee named June 15, 16, 17 and 18 as the time for the big session. The cities of Reading, Pa., Baltimore and Syracuse were made members of the National Association.

WATERPROOFING CONCRETE.

Many articles are appearing in the technical journals, written in the interest of special paints and coatings for concrete surfaces, in which it is stated that cement waterproofing, in powder or liquid form, decreases the strength of the cement or affects the metal used for reinforcement. These statements, as applied to the standard brands of waterproofing, are far from the facts in the case. Millions of pounds of waterproofing powder are used yearly by the leading engineers and cement workers of the country, and the makers of standard waterproofing material have great numbers of tests, by reliable authorities, which show not the slightest injurious effect on strength.

As to the claim that a material like good waterproofing, which is absolutely neutral, insoluble, inert and unchanged with age, could attack the metal reinforcement is too absurd to be discussed. There is no doubt that the many attacks on cement waterproofing by parties interested in promoting other materials have done much to deter inexperienced users from adopting waterproofing material of recognized value, but trained engineers pay little attention to loose statements unsupported by proof, and base their judgment on reliable records of long-time tests.

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HARDWARE—ITS USE AND ABUSE

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Very often a well trimmed residence is spoiled and made an eyesore by the miserable looking hardware on the door, windows, etc., no pains having been given either to the utility or beauty of the different pieces of hardware that go to make a well balanced house. One sees an entrance Dutch door with bolts of the wrong kind put on the wrong way, butts that are the wrong size and locks and trimmings that don't suit the period. The consequence is that in a short time the bolts will not operate because they were never made to do that kind of work. The butts allow the door to sag and the trim, to any one that admires beauty, is a nightmare. So it goes right through the building, and it is surprising how little interest the carpenters, foreman, and the carpenter boys take in this subject.

Many carpenters don't know the first rudiments concerning the proper application of fine locks and trimmings and abuse the different articles. As an instance, the writer had occasion to visit a job concerning this line and noticed a carpenter cutting a mortise in a door for a 5-inch cylinder front door lock. Instead of taking measurements or cutting a cardboard jig and working from same, he took the lock and scribed the edge of the case on the edge of the door, and tried to cut the mortise from that. After the mortise was cut, as he thought about correct, he pushed the lock into the mortise and as it fitted tight, he tried to drive it home by hitting it on the face with a hammer! Now locks of this character have very good works which are mechanically correct for the purpose intended, but were not constructed with any idea of such abuse, the consequence is that after the owner lives in the house a short time, he has trouble with the lock, and abuses the builder; and the builder in turn abuses the hardware man, and so it goes down the line.

Other things noticed was the manner of attaching door, escutcheons, door knobs, casement fasts and double acting spring butts. Escutcheons were not placed properly over the key holes of the locks in one instance, cylinder locks, escutcheons and knobs were upside down. Door knobs in many cases did

not operate properly, due to the fact that no knob washers were used, in other cases because escutcheons were not in alignment with the locks. Casement and French window hardware was even worse. Cremorne bolts with lever handles were upside down, and when operated, the lever handle would turn upward instead of downward. On casement fasts the tendency also was to work them upside down. Double acting spring hinges seem to be another unfortunate article and often carpenters spend hours and hours trying to attach and put them into working condition.

All this could and should be avoided, with a little attention and study, and most of it can be attributed to carelessness and lack of attention to detail. Any mechanic can familiarize himself with hardware and its proper application either through the dealer or the manufacturer. In most cases when new articles are placed on the market, the manufacturers will enclose instructions with the goods and proper method of applying.

Artistic hardware should be handled with care; and skill is required to attach same. The proper method to pursue is to take the article from the original package, see what the contents are and if all the parts are as specified, including screws. Very often claims of shortage are made to the dealer, when through carelessness, articles are thrown away with the wrappings. This means delay, especially if it is factory ordered goods. After you are positive that everything is as wanted, take your measurements and scribe off your work. Try as much as possible not to handle the goods more than absolutely necessary, as the fingering by most hands and the dust of new building settling in, play havoc with fine finished goods. Glass knobs require great care; by no means tap them to set in place. It is also very essential that they work easy and are in true alignment.

After hardware is fitted, take same off, marking the different parts properly with their location, and store away until trim has been painted or varnished. Don't, by any means, leave hardware on the trim while being painted. More good hardware has been ruined this way than any other. After the

hardware is again attached, wrap all the parts liable to be handled with cloth until residence is occupied by owner.

The above are facts from actual observation, and time and money could be saved if carpenters were schooled in the proper application of hardware. Probably in years to come this phase of the business will receive the same attention as the other branches of carpentry. Hardware is getting better and more artistic every year, and as it is really the finishing touch of every building and must harmonize with the other furnishings, it is no more than reasonable to expect that it receive the same attention as other details.—Henry M. Schember, in "American Carpenter and Builder."

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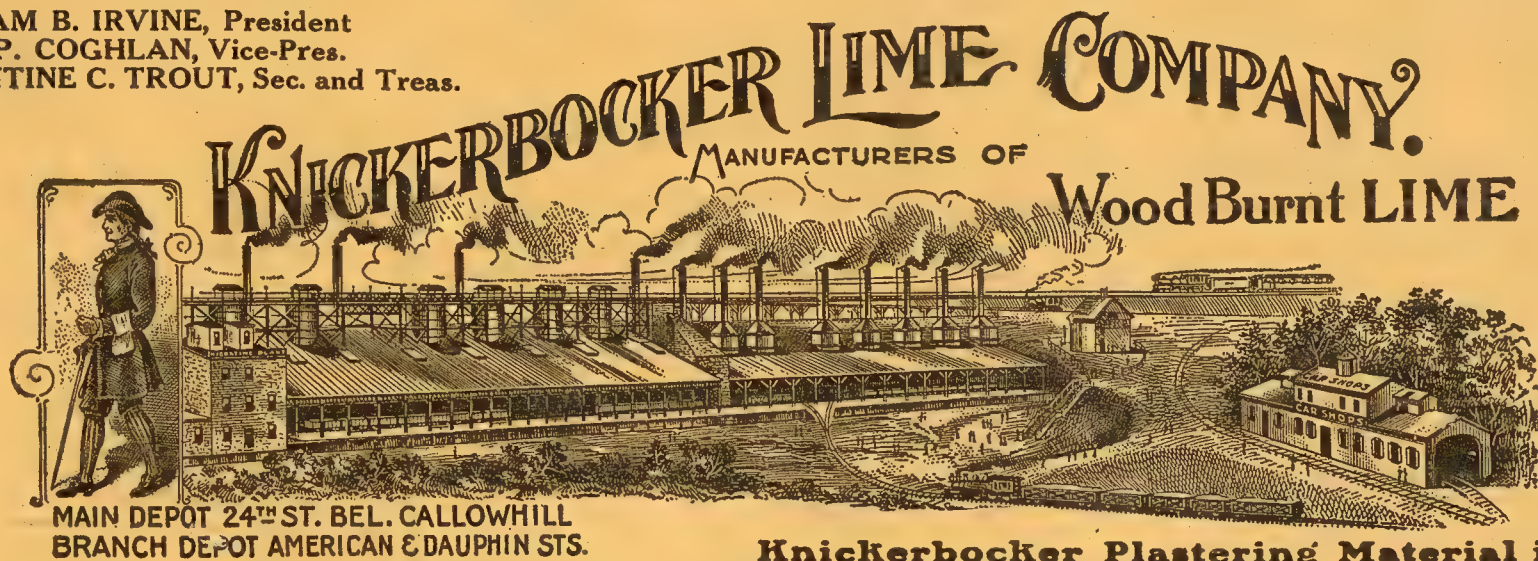
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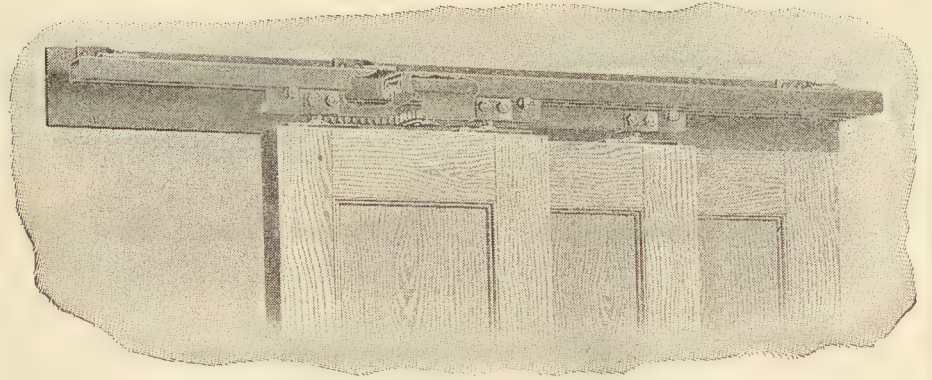
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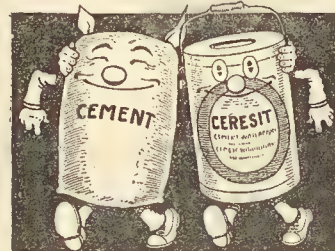
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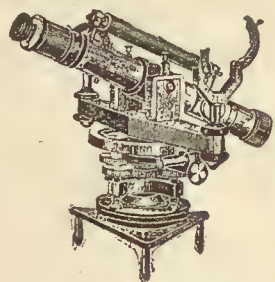
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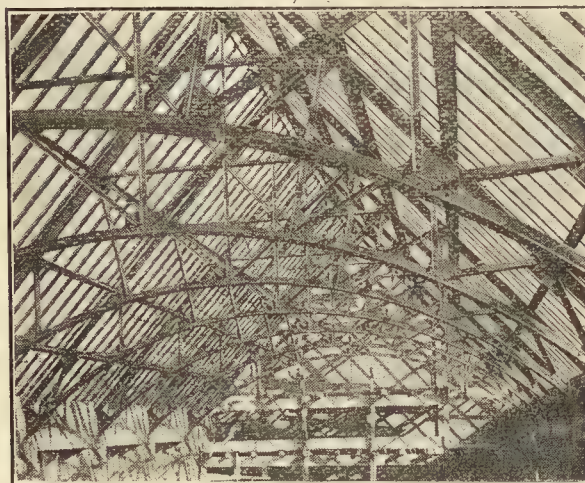


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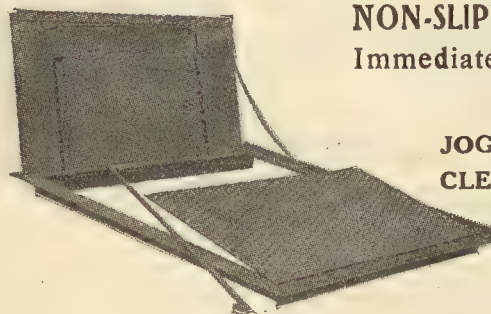
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Vol. XXIX., No. 47.

PHILADELPHIA, WEDNESDAY, NOVEMBER 25, 1914.

Less than One Year
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Power House, Holmesburg, Philadelphia. \$100,000. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, City of Philadelphia, Department of Health and Charities, City Hall, Philadelphia. Brick, concrete and steel, fireproof, 2 stories, slag roof, metal sash and frames, electric lighting. Owners will soon advertise for bids.

Nurses Home, Second and Luzerne streets, Philadelphia. \$100,000. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, City of Philadelphia, Department of Health and Charities, City Hall. Brick, stone and steel, fireproof, 3 stories, 85x100 feet, slate roof, steam heating, electric lighting. Plans in progress.

Church, Sixtieth and Westminster avenue, Philadelphia. \$60,000. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Gethsemane Lutheran Church, Rev. J. H. Main, 1225 North Sixtieth street, Philadelphia. Stone, church, 1 story, 70x88 feet; parsonage, 3 stories, 26x36 feet; Sunday school, 2 stories, 37x61 feet, slate roof, steam heating, electric lighting. Architect taking bids due December 1st. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Burd P. Evans & Company, Thirteenth and Wallace streets; Ketcham & McQuade, 1029 Brown street; F. E. Wallace, 1210 Sansom street; Wm. R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; H. P. Schneider, 3715 Old York Road; L. L. Kreider, 6022 Westminster avenue, and E. E. Hollenback, Fifteenth and Race streets; Joseph Bird Co., 213 North Eleventh street.

Residences (8), Ruth and Jasper streets, Philadelphia. Architect, Chas. W. Bolton & Son, Witherspoon Building. Owner, Horace Linton 6404 North Seventh street, Philadelphia. Brick 2 stories, 1x30 feet each, slag roof, hot-air heating, gas lighting. Architects taking bids due November 27th. The following are figuring: F. A. Havens & Co., 845 North Nineteenth street; Burd P. Evans & Company, Thirteenth and Wallace streets; H. P. Schneider, 3715 Old York road; H. C. Rea Company, 1027 Wood street, all of Philadelphia.

Apartment House (alt.), Thirty-ninth and Chestnut streets, Philadelphia. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, Hamilton Court Apartment House Company, on premises. Consists of alterations to toilet rooms. Metal lath, dampproofing, electric lighting. Architect has received bids.

Store Building (alt. and add.), Gideon and Wood streets, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Wm. A. Daggett, 3820 Market street, Philadelphia. Brick, 3 stories. Architect has received bids.

Market House, 954-56 Marshall street, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Charles Ellman, 314 North Second street, Philadelphia. Brick, concrete and steel, 1 story, 23x176 feet, slag roof, electric lighting, concrete floors. Plans in progress. Architect will take bids in one week.

Wall, Thirty-fifth and Grays Ferry road, Philadelphia. Architect, private plans. Owners, Harrison Bros. & Co., on premises. Brick, expanded metal and cement coating, 90 feet long and 43 feet high. Owners have received bids.

Sun Porch, 6119 Wayne Ave., Philadelphia. Architect, M. H. Dickinson, Empire Building, Philadelphia. Owner, Mrs. Kate Hicks, on premises. Tile roof, steam heating, electric lighting, oak floors, metal lath. Architect has received bids.

Stores (4), Forty-second and Lancaster avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. K. Alcott, Eighteenth and Washington avenue, Philadelphia. Brick, 1 story, 80x100 feet, slag and tile roof, hot-air heating, electric lighting. Owner is taking sub-bids.

Garage, Orianna and George streets, Philadelphia. Engineers, Chas. H. Kohn & Co., 1614 Cherry street, Philadelphia. Owners, name withheld. Brick, 1 story, 47x78 feet, slag roof, steam heating, electric lighting. Engineers are taking sub-bids.

Store (alt.), Orthodox street and Frankford avenue, Philadelphia. Architect, I. E.

Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Stores Co., 44 West Eighteenth street, New York City. Consists of new front and interior alterations. Architect has received bids.

Residences (92), Twelfth and Dickinson streets. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, A. J. Margolin, 203 South Fifth street, Philadelphia. Brick, 2 stories, slag roof, hot air and hot water heating, gas lighting. Owner is ready for sub-bids.

Parochial School, Hutchinson and Cambria streets, Philadelphia. Architect, John A. Fischer, 3621 North Fifth street, Philadelphia. Owner, St. Bonaventura R. C. Church, Rev. H. Hammeke, 2831 North Hutchinson street. Brick, stone trimmings, 60x80 feet, slag roof, steam heating, electric lighting, slate blackboards. Plans in progress.

Show Rooms (alt.), Broad and Wallace streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Automobile Trade Association, Broad and Callowhill streets. Consists of fitting up first floor for automobile show. Carpenter work, painting, decorating and electric work. Plans in progress. Architect will take bids about December 1st.

Warehouse, Kensington avenue and Hilton streets, Philadelphia. Architect, Chas. W. Denny, Hale Building, Philadelphia. Owner, Charles Devlin, 3219 Kensington avenue, Philadelphia. Brick, 2 stories, 100x75 feet, slag roof, electric lighting. Plans about completed. Architect will take bids in a few days.

Packing Plant and Store (add.), Second and Poplar streets, Philadelphia. Engineers, Chas. H. Kohn & Co., 1614 Cherry street, Philadelphia. Owners, Roesch Bros., 834 North Second street, Philadelphia. Brick, steel and concrete, 4 stories, 60x90 feet, slag roof, steam heating, electric lighting, concrete floors, metal window frames, elevator, iron stairs. Plans in progress.

Hospital (add.), Corinthian and Girard avenues, Philadelphia. Architect, Frank A. Rommel, 1524 Chestnut street, Philadelphia. Owner, German Hospital, on premises. Brick,

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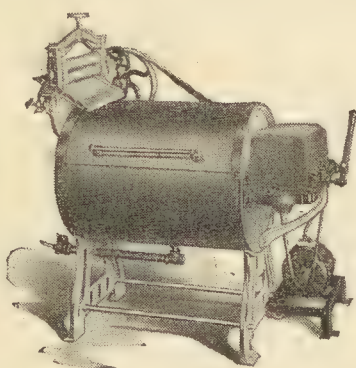
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Restaurant (alt. and add.), 1508-1512 Market street, Philadelphia. Architects, Stuckert & Sloan, 1420 Chestnut street, Philadelphia. Owner, Horn & Hardart Baking Co., 1818 Chestnut street, Philadelphia. Brick, steel and terra cotta, 3 stories, slag roof, steam heating, electric lighting, metal lath, tile and marble work. Plans in progress. Architects will take bids in one month.

Laboratory, 307-309 New street, Philadelphia. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owners, England, Walton & Company, Third and Vine streets, Philadelphia. Brick and concrete, fireproof, 2 stories, 25x45 feet, slag roof, concrete floors (heating, electric work and plumbing, separate gids). Architect taking bids due November 27th. The following are figuring: F. T. Mercer Company, 1706 Delancey street; Metzger & Fisher, Denckla Building; H. H. Burrell, 206 South Quince street; Thos. Little & Son, 1723 Moravian street; Jacob Myers & Son, Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; Monaghan & Losse, 214 South Twelfth street; Wm. Steele & Sons, Sixteenth and Arch streets; J. Sims Wilson Co., 1125 Brown street, all of Philadelphia.

Residences (50), Fifty-eighth and Pentridge streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Pemberton Estates, 1400 South Fifty-eighth street, Philadelphia. Brick, 2 stories, 15x48, slag roofs, hot water heating, gas and

electric lighting. Owners ready for sub-bids.

Residences (7), Lisdley avenue and Fairhill street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, William A. Lechler, 3705 Germantown avenue, Philadelphia. Brick, 2 stories, slag roof, hot air heating, gas and electric lighting. Plans in progress.

Warehouse, Filbert and American streets, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, J. D. Lit, Eighth and Market streets, Philadelphia. Brick and concrete, 4 stories, 75x150 feet. Plans in progress.

Church, Sixtieth and Westminster avenue, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Gethsemane Lutheran Church, care of Rev. J. H. Main, 1225 North Sixtieth street, Philadelphia. Stone, Church, 1 story, 48x82 feet; Sunday School, 30x60 feet; Parsonage, 17x60 feet, slate roofs, steam heating, electric lighting. Architect taking bids, due December 1st. In addition to those previously reported, Joseph Bird Co., 213 North Eleventh street, Philadelphia, is figuring.

Laboratory, 307-309 New street, Philadelphia. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owners, England, Walton & Co., Third and Vine streets, Philadelphia. Brick and concrete, fireproof, 2 stories, 25x45 feet, slag roof, concrete floors (heating, electric work and plumbing separate bids). Architect taking bids, due November 27th. In addition to those previously reported, J. Sims Wilson, 1125 Brown street, Philadelphia, is figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, 4937 Stenton avenue, Philadelphia. \$30,000. Architect, private plans. Owner, Atwater-Kent Mfg. Works, on premises. Brick, 1 story, 120x120 feet, slag roof, steam heating, metal frames and sash, electric lighting. Contracts awarded to George & Borst,

277 South Eleventh street, Philadelphia, who are taking sub-bids on all lines.

Garage, Wayne avenue and Washington lane, Germantown. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, James R. Crellin, 3213 Turner street,

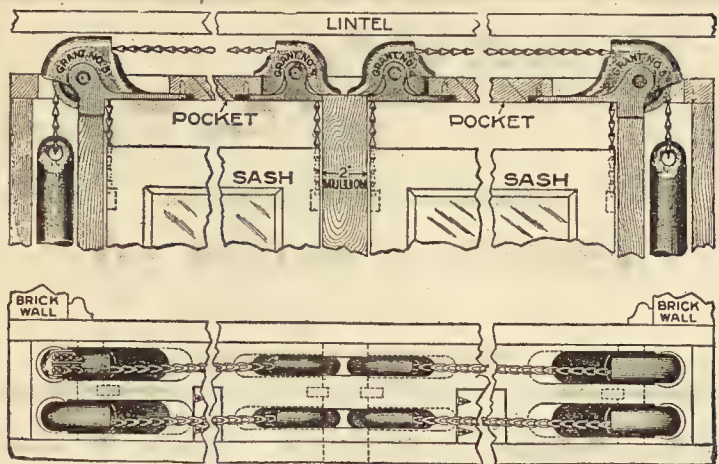
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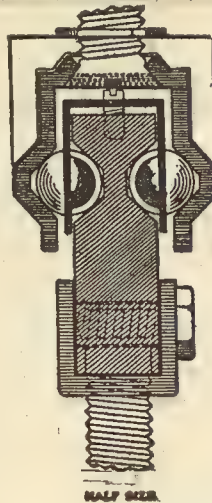
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Philadelphia. Brick and concrete, 3 stories, 56x82 feet, slag roof, metal lath, gasoline storage system (heating and electric work reserved). Contract awarded to Monaghan & Losse, 214 South Twelfth street, Philadelphia.

Factory (add.), Twenty-fourth and Vine streets, Philadelphia. \$19,000. Architect, private plans. Owner, John Larr Paper Co., on premises. Brick and concrete, 4 stories, 60x64 feet, slag roof, steam heating, electric lighting. Contract awarded to Wm. H. Eddleman & Sons, 453 Green lane, Roxborough, Philadelphia.

Stable and Garage, 5344 Germantown avenue, Philadelphia. \$6,500. Architects, Sav-

ery, Scheetz & Savery, Stephen Girard Bldg., Phila. Owner, Manheim Laundry Co., Mr. N. W. James, on premises. Brick and concrete, 2 stories, 52x57 feet, slag roof (heating and electric work reserved). Contract awarded to Burd P. Evans & Co., Thirteenth and Wallace streets.

Residence, Germantown, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owner, Mifflin W. Jones, 229 Church lane, Germantown. Stone, 2½ stories, 25x43 feet, wing 21x18 feet, shingle roof, hardwood floors (heating and electric work reserved). Contract awarded to Charles Johsson, 5701 Boyer street, Germantown.

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VALVES AND SCALES

PENNSYLVANIA Construction News

Hose House, Olyphant, Pa. \$9,000. Architect, John John J. Feeney, Coal Exchange Building, Scranton, Pa. Owner, Borough of Olyphant, Olyphant, Pa. Brick and stucco, 2 stories, 28x150 feet, slag roof, steam heating, electric lighting, metal ceilings, metal lath. Plans in progress.

Factory, Kingston, Pa. \$16,000. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, St. Ignatius R. C. Church, Kingston, Pa. Brick and stucco, 3 stories 44x54 feet, tile roof, steam or hot water heating, gas and electric lighting, tile work, hardwood floors, metal lath. Plans about completed. Architect will take bids in a few days.

Residence, Huntsville, Pa. Architect, Thomas Podmore, Wilkes-Barre, Pa. Owner, Mrs. S. R. Loomis, Wilkes-Barre, Pa. Frame, 2½ stories, 3½x65 feet, shingle roof, hot-air heating, electric lighting. Plans in progress.

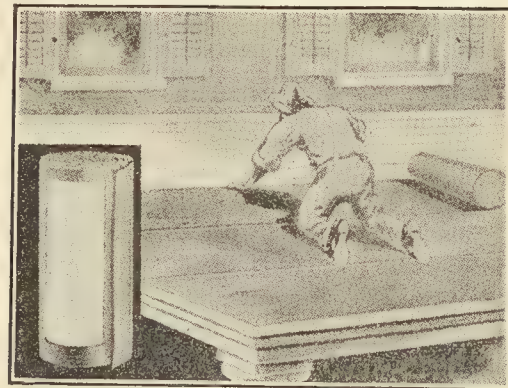
Residence, Dallas, Pa. Architect, Thomas Podmore, Wilkes-Barre, Pa. Owner, Mrs. S. W. Townsend, Wilkes-Barre, Pa. Frame, 2½ stories, 30x45 feet, shingle roof, hot-air heating, gas and electric lighting. Architect ready for bids.

Residence, Wilkes-Barre, Pa. \$7,000. Architects, Knapp & Bosworth, 15 South Franklin street, Wilkes-Barre, Pa. Owner, Henry

Shapiro, 518 South Main street, Wilkes-Barre, Pa. Brick, stone trimmings, 3 stories, 24x47 feet, slate roof, steam heating, gas and electric lighting, tile work, hardwood floors. Plans and progress. Architects will take bids in one week.

Cold Storage Plant (alt.), Scranton, Pa. \$20,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owner, Lackawanna Cold Storage Warehouse Co., Scranton, Pa. Concrete, steel and terra cotta, 7 stories 80x80 feet, concrete floors. Architect has received bids.

Y. M. C. A., Waynesboro, Pa. Architects, Shattuck & Hussey, 19 South La Salle street, Chicago. Owner, Y. M. C. A., care of E. Stoner, Waynesboro, Pa. Brick, steel and concrete, 4 stories, 75 x 120 feet, tile and composition roof, steam heating, electric lighting, metal lath, waterproofing and damp-proofing. Architects taking bids due December 18th. The following are figuring: F. Roe Searing, Perry Building, Philadelphia; King, Lumber Co., Charlottesville, Va.; Oscewana Building Co., 101 Park avenue, New York City; Cullen & Vaughn, Hamilton, Ohio; A. B. Warner, Waynesboro, Pa.; A. C. Dukehart, Waynesboro, Pa.; Aukoney Bros., Waynesboro, Pa.; W. A. Pentz, Scotland, Pa.; Jacob Shank, Greencastle, Pa.



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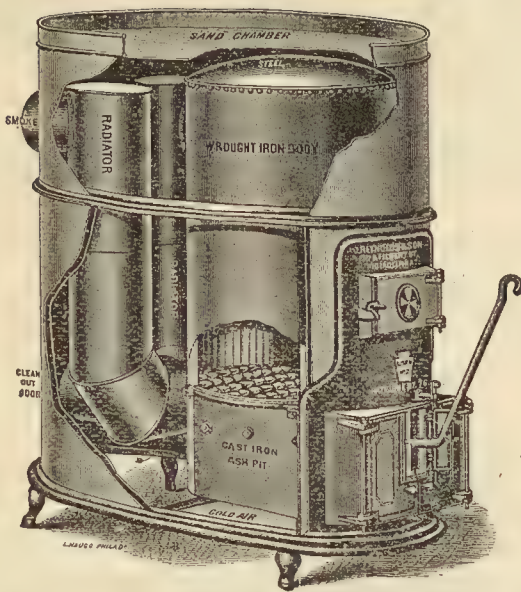
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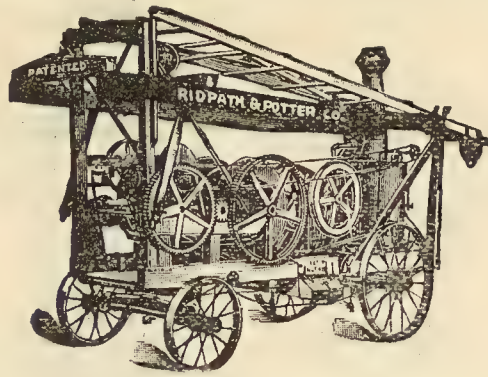
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Residence and Garage, Haverford, Pa. \$10,-\$00. Architects, Martin & Kirkpatrick, 1001 Chestnut street, Philadelphia. Owner, Walton Clark, Jr., Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 32x50 feet, shingle roof, electric lighting, oak floors (heating reserved). Revised plans in progress. Architects will take bids from two low bidders.

Residences (80), Darby, Pa. Architect, private plans. Owner, George A. Jones, 5216 Girard avenue, Philadelphia. Brick, 2 stories, slag roof, hot air and hot water heating, gas lighting. Plans will soon be started.

Residence, Scranton, Pa. Architect, private plans. Owner, John A. Price, 949 Wood-yawn avenue, Scranton, Pa. Frame, 2 stories, 28x30, tin roof, hot-air heating, gas lighting. Owner is taking sub-bids.

Residences (4), Scranton, Pa. Architect, private plans. Owner, W. S. Dewitt, 1710 Sanderson street, Scranton, Pa. Frame, 2 stories, 18x26 feet, hot-air heating, gas lighting. Owner is subletting all contracts.

Store and Residence, Scranton, Pa. \$4,000. Architect, private plans. Owner, F. P. Spiegel, Washington and Myrtle streets, Scranton, Pa. Brick and frame, 3 stories, 48x108 feet, slag roof, steam heating, electric lighting. Owner is subletting all contracts.

Residence, Scranton, Pa. Architect, private plans. Owner, G. W. Snyder, 1639 Penn avenue, Scranton, Pa. Frame, 2 stories, 26x34 feet, slate roof, hot-air heating, gas lighting. Owner is sub-letting all contracts.

Residence, Wilkes-Barre, Pa. Architect, Henry A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Allen Guyette, 23 East North street, Wilkes-Barre, Pa. Brick, 3 stories, 44x45 feet, slag roof, hot water heating, gas lighting, metal lath. Owner is taking bids.

Stores (2), Wilkes-Barre, Pa., \$10,000. Architect, Henry A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, D. S. Williams and Ralph Israel, Wilkes-Barre, Pa. Brick, 2 stories, 48x100 feet, slag roof, steam heating, electric lighting, iron grilles. Architect has received bids.

Apartment House (alts.), Wilkes-Barre, Pa. \$2,000. Architect, Henry A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, names withheld. Brick and stone, 3 stories, 15x55 feet, electric lighting (heating reserved). Architect taking bids.

Residence and Garage, Elkins Park, Pa. Architects, Street & Stackhouse, Drexel Building, Philadelphia. Owner, S. W. Lowenstein, Melrose Park, Pa. Hollow tile and plaster, 2½ stories, 30x60 feet, slate roof, hot-water heating, oak floors, gas and electric lighting. Plans completed. Architects ready for bids.

Garage, Merion, Pa. Architects, Duhring, Okie & Zeigler, Land Title Building, Philadelphia. Owner, C. R. Wentz, Land Title

Building, Philadelphia. Stone, 2 stories, shingle roof, hot water heating, electric lighting. Architects taking bids due November 25th. J. Sims Wilson Co., 1125 Brown street, Philadelphia, is figuring (only bidder).

Barn and Stable, Bristol, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Joseph G. Grundy, Bristol, Pa. Frame, 1 story, 58x68 feet, shingle roof. Plans in progress for superstructure.

Residence, Narberth, Pa. Architect, private plans. Owner, James MacMackin, 41 South Fifteenth street, Philadelphia. Hollow tile and plaster, 2½ stories, 23x35 feet, shingle roof, vapor vacuum heating, gas and electric lighting. Owner taking sub-bids.

School (alt. and add.), Port Carbon, Pa. \$35,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, Port Carbon, Pa. Brick and stone, 2 stories, slate roof, electric lighting, slate blackboards. Plans in progress.

Church, Reading, Pa. \$18,000. Architect, A. F. Smith, 1029 Penn street, Reading, Pa. Owner, Christ Evangelical Church, Rev. J. L. Tonkin, 1039 Robeson street, Reading, Pa. Stone, 1 story, 50x60 feet, slate roof, steam heating, electric lighting. Revised plans in progress.

Residence, Oley, Pa. \$5,000. Architect, Calvin J. Young Young, 520 Washington street, Reading, Pa. Owner, Charles Glase, Oley, Pa. Stone, 2½ stories, 38x40 feet, slate roof, hot-water heating, electric lighting, tile work. Plans in progress. Owner will take bids in one week.

Bungalow, near Reading, Pa. Architect, J. Earl Hickman, 119 South Fifth street, Reading, Pa. Owner, E. L. Hittinger, Reading, Pa. Frame, 2 stories, 20x30 feet, composition roof. Plans in progress.

School, Myerstown, Pa. \$30,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education, E. L. Bleistein, secretary, Myerstown, Pa. Stone, 2 stories, 140x84 feet and 20x75 feet, slag roof, metal lath, waterproofing, safety treads, slate blackboards (heating and electric work, separate bids. Owners have received revised bids.

Apartment House, Scranton, Pa. \$50,000. Architect, private plans. Owner, S. Jones, care Washburn, Williams & Company, 119 Meridian street, Scranton, Pa. Brick, 3 stories, 44x60 feet, slag roof, steam heating, gas and electric lighting, hardwood floors, tile work, refrigerators, gas ranges. Owner is taking sub-bids.

Garage, Scranton, Pa. \$12,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owner, Maloney Oil & Mfg. Co., 141 Meridian street, Scranton, Pa. Tapestry brick, limestone and terra cotta, 2 stories, 35x65 feet, slag roof, steam heating, electric light, concrete floors, metal sash and frames,

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waterproofing and dampproofing. New plans in progress.

Automobile Factory, Scranton, Pa. \$50,000. Architect, not yet selected. Owner, Motor Kart Co., care of G. C. Wolf, Hotel Jermyn, Scranton. Concrete, 2 stories, 60x300 feet. Consists of main building and power house, slag roof, steam heating, electric lighting, wood block and concrete floors, waterproofing, metal sash and frames. Owners will soon select architect.

Monument, Wilkes-Barre, Pa. \$50,000. Designer, not yet selected. Owner, County Commissioner's Art Commission, care Controller Hinderhot, Court House, Wilkes-Barre, Pa. Owners will soon select a designer.

Sunday School (add.), Dunmore, Pa. \$10,000. Architect, not yet selected. Owner, Presbyterian Church, care Frank Wallace, Chairman Building Commission, Dunmore, Pa. Brick and stone, 2 stories. Owner will soon select architect.

Church (int. alts.), West Scranton, Pa. \$10,000. Architect, private plans. Owner, First Welsh Baptist Church, West Scranton, Pa. Consists of new pews, electric lighting and decorating. Owner will soon take bids.

Passenger Station, Tunnels and Platform, Johnstown, Pa. \$150,000. Architect, K. M. Murchison, 101 Park avenue, New York City. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and stone, 2 stories, 70x150 feet, slate roof, steam heating, electric lighting. Plans in progress.

Passenger Station, Tunnels and Platforms, Wilkesburg, Pa. \$125,000. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and stone, 2 stories, 60x125 feet, slate roof, steam heating, electric lighting. Plans in progress.

Power House, Paoli, Pa. Architect, W. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick, 1 story, 30x50 feet, slag roof. Plans in progress. Bids in two weeks.

Residence, Cynwyd, Pa. Architect, H. B. Weldon, 1606 Cherry street, Philadelphia. Owner, W. S. Van Asdlen, Harrison Building, Philadelphia. Stone and frame, 2½ stories, 30x40 feet, shingle roof, hot water heating, gas and electric lighting, hardwood floors. Architect taking bids, due November 30th. The following are figuring: John E. Kearney, 327 North Sixty-third street, Philadelphia; John G. T. Miller, 2315 West Clearfield street, Philadelphia; Mowrer Bros., Merion, Pa.; Alfred James, Bala, Pa.; W. D. Smedley, Narberth, Pa.

Twin Residence, Fox Chase, Philadelphia. \$7,500. Architects, Durham Bros., Heed Building, Philadelphia. Owner, George Beirmeister, 7427 Send street pike, Philadelphia. Cement blocks, 2½ stories, 48x70 feet, slate roofs, hot air heating, gas and electric lighting. Owner is taking sub-bids.

PENNSYLVANIA

Contracts Awarded

Residence, Cynwyd, Pa. \$9,000. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, L. Stanley King, Cynwyd, Pa. Stone and frame, 2½ stories, 24x56 feet, wing 16x17 feet, shingle roof, hot water heating, electric lighting. Contract awarded to Alfred James, Bala, Pa.

Residence (alt. and add.), near Media, Pa. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owner, Alan Cunningham, Media, Pa. Stone and frame, 2 stories. Contract awarded to J. D. Lengel, Wayne, Pa.

Garage, near Media, Pa. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owner, Alan Cunningham, Media, Pa. Hollow tile and plaster, 1 story, 27x45 feet, shingle roof, electric lighting (heating reserved). Contract awarded to J. D. Lengel, Wayne, Pa.

Residence, Lansdowne, Pa. \$12,000. Architects, Heacock & Hockanson, Bailey Building, Philadelphia. Owner, Wm. E. Pearse, 4920 Warrington avenue, Philadelphia. Frame and stucco, 2½ stories, 30x30 feet, shingle roof, warm air heating, gas and

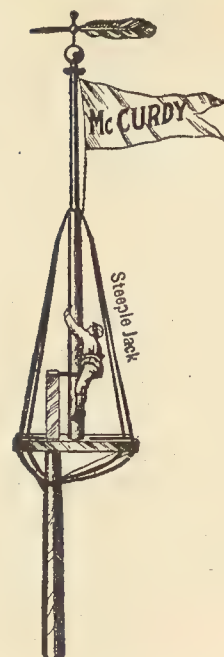
electric lighting. Contract awarded to James K. Ingram, Lansdowne, Pa.

Residence, Scranton, Pa. \$5,000. Architect, Frank J. Miller, Peoples Bank Building, Scranton, Pa. Owner, Fred W. Lee, Dime Bank Building, Scranton, Pa. Stucco and frame, 2½ stories, 30x38 feet, shingle roof, steam heating, gas and electric lighting, hardwood floors, tile work, metal lath. Contract awarded to Charles E. Lee, 825 Wheeler avenue, Scranton, Pa.

Residence, Wilkes-Barre, Pa. \$4,500. private plans. Owner, Joseph Heyleck, Wilkes-Barre, Pa. Brick, 2 stories, 18x40 feet, slate roof, hot air heating, electric lighting. Contract awarded to W. J. Kear, 80 East Northampton street, Wilkes-Barre, Pa.

Residence, Wilkes-Barre, Pa. \$3,000. Architect, private plans. Owner, G. N. Culp, 138 Stanton street, Wilkes-Barre, Pa. Frame, 2 stories, 18x42 feet, slate roof, hot air heating, electric lighting. Contract awarded to F. W. Eddy, 266 Horton street, Wilkes-Barre, Pa.

Residence, Scranton, Pa. \$4,000. Architect, private plans. Owner, Frank S. Smith,



FLAG POLES and Fittings

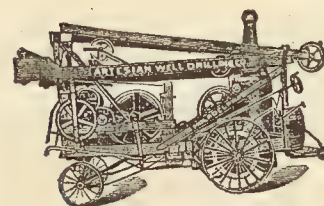
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1734 Wyoming avenue, Scranton, Pa. Frame, 2 stories, 32x32 feet, slag roof, hot air heating, gas lighting. Contract awarded to Aaron Kennedy, 1435 Lincoln avenue, Scranton, Pa.

Stores (3), Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, J. D. Williams and Campbell Estate, Wilkes-Barre, Pa. Brick, 2 stories, 50x43 feet, slag roof, steam heating, electric lighting. Contract awarded to I. M. Leach, 88 North Pennsylvania avenue, Wilkes-Barre, Pa.

School, Warrior Run, Pa. \$17,900. Architect, James A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Board of Education, Warrior Run, Pa. Brick, 2 stories, 40x80x80 feet, slag roof, slate blackboards. Contract awarded to Edward Donohue, Newton, Pa. (Note change). Heating to Wyoming Engineering & Construction Company, 40 North Main street, Wilkes-Barre, Pa.; Plumbing to Thomas J. Curley, Wilkes-Barre, Pa.

Residence, Scranton, Pa. \$4,000. Architect, private plans. Owner, W. C. Bruning, 317 North Hyde avenue, Scranton, Pa. Frame, 2 stories, 22x44 feet, shingle roof, hot air heating, gas lighting. Contract awarded to Allspaugh Bros., 309 North Bromley avenue, Scranton, Pa.

Farm House (alts.), Whitford, Pa. \$2,000. Architects, Bissell, Sinkler & Tilden, Bailey Building, Philadelphia. Owner, Whitford Lodge, Whitford, Pa. Stone and frame, 2½ stories. Consists of new partitions and plumbing fixtures. Contract awarded to F. F. Gray, Green Hill, Pa.

Residence alt. and add., Wayne, Pa. Architect, E. D. Salter, Parkside and Wynnefield avenue, Philadelphia. Owner, Charles A. Wentworth, care of architect. Frame, 2½ stories, shingle roof, electric lighting, canvas roof. Contract awarded to Lansdowne Construction Company, Lansdowne, Pa.

New Jersey

Contracts Awarded

Residences (4), Camden, N. J. Architect, private plans. Owner, Mrs. Elizabeth M. Bain, Camden, N. J. Brick, 2 stories, 15x44 feet each, slag roof, hot air heating, gas lighting. Contract awarded to William Yeager, 1467 Haddon avenue, Camden, N. J.

Garage, 410 North Fourth street, Camden, N. J. Architect, private plans. Owner, Benjamin G. Carll, on premises. Brick, 1 story, 14x22 feet, slag roof, electric lighting, concrete floors. Contract awarded to Mockett Construction Company, Sixth and Market streets, Camden, N. J.

Garage, 315 North Second street, Camden, N. J. Architect, private plans. Owner, August Smith, on premises. Brick, 1 story, 14x20 feet, slag roof, electric lighting, cement floors. Contract awarded to W. Cole, 26 South Thirty-fifth street, Camden, N. J.

Factory, Millville, N. J. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Caloris Company, care of Mr. Fredericks, 2110 West Allegheny avenue, Philadelphia. Brick, 1 story, 70x160 feet, slag roof, steam heating, electric lighting. Contract awarded to H. H. Hankins & Brothers, Bridgeton, N. J.

Residences (2), Trenton, N. J. \$6,000. Architect, private plans. Owners, Greenwood Realty Company, Forst Richey Building, Trenton. Brick and shingle, 2½ stories, 23x34 feet each, slate and tin roof, hot water heating, gas and electric lighting. Contract awarded to James Birks, Trenton, N. J.

Store and Residence (alts.), 901 South Broad street, Trenton, \$3,500. Architect, private plans. Owner, Morris Wineberg, on premises. Brick, 2 stories, slag roof, electric lighting. Contract awarded to Nicholas Luger & Son, Trenton, N. J.

Residence, Trenton, N. J. \$3,200. Architect, private plans. Owner, Otto Eaden, Trenton, N. J. Brick and frame, 2½ stories, 18x29 feet each, slate and tin roof, hot water heating, gas and electric lighting. Contract awarded to Carl Froeklich, Trenton, N. J.

Miscellaneous Construction News

Memorial Amphitheatre and Chapel, Arlington, Va., \$750,000. Architects, Carrere & Hastings, 225 Fifth ave., New York. Owner, United States Government, W. W. Hart, Washington, D. C. Stone and steel 1 and 2 stories, 200x330 feet and 85x100 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Owners taking bids due December 7th. In addition to those previously reported, Doyle & Co., 1519 Sansom street, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Store House, Navy Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Brick, steel and concrete, 5 stories, 150x250 feet, slag roof, steam heating, electric lighting, waterproofing, dampproofing, electric elevators, safety treads, metal sash and frames, rolling steel doors. Owners taking bids due December 12th. In addition to those previously reported, Alex. Chambley, 243 South Tenth street; McClintock-Marshall Construction Co., Morris Building, all of Philadelphia, are figuring.

Apartment Hotel, Stamford, Conn. Architect, Henry C. Pelton, 8 West Thirty-eighth

NEW JERSEY

Construction News

Bakery, Atlantic City, N. J. Architect, S. Hudson Vaughn, Dartlett Building, Atlantic City. Owner, Wm. Freihofer Baking Co., care Wm. Freihofer, Thirtieth and Indiana avenue, Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting. Plans in progress.

Residence, Ventnor, N. J. Architect, S. Hopkinson Evans, 1315 Walnut street, Philadelphia. Owner, Charles Westing, 1315 Walnut street, Philadelphia. Brick and plaster, 2 stories, 25x60 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans completed. Architect ready for bids.

Post Office, Morristown, N. J. Architect, O. Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and stone, 2 stories, 91x82 feet, tile roof, steam heating, electric lighting, metal lath, safety treads, waterproofing and dampproofing. Owners taking bids due December 5th. Alex. Chambley, 243 South Tenth street, Philadelphia, is figuring, in addition to those previously reported.

School Building (alt.), Vineland, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Board of Education, care of Edgar R. Jones, Decker Block, Vineland, N. J. Brick, 2 stories, metal lath and concrete fireproofing, electric lighting, new mechanical heating system, safety treads. Plans in progress. Architect will take bids about January 1st.

Residence (alt.) and Garage, Atlantic City, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owner, Mrs. Isaac H. Dixon, 114 South Kingston avenue, Atlantic City. Stone and frame, 3 stories, slate roof, hot water heating, gas and electric lighting. Plans in progress.

Bank Building, Swedesboro, N. J. \$25,000. Architect, Charles R. Poddle, 136 South Fourth street, Philadelphia. Owner, Swedesboro National Bank, Swedesboro, N. J. Brick and marble trimmings, 2 stories, 49x71 feet, slag roof, steam heating, electric lighting, tile work and marble work. Plans in progress. Architect will be ready for bids in two weeks.

Stores and Residences (4), Camden, N. J. Architect, private plans. Owner, Harry W. Bealer, Woodlynn, N. J. Brick, 2 stories, 16x54 feet each, slag roof, hot air heating, gas and electric lighting. Owner is taking sub-bids.

Residence, Collingswood, N. J. \$3,800. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, A. B.

Evans, Collingswood, N. J. Frame, 1½ stories, 30x41 feet, shingle roof, hot water heating, gas and electric lighting. Architects have received bids.

Residence, Haddonfield, N. J. \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, John Trumphy, Haddonfield, N. J. Hollow tile and stucco, 2½ stories, 27x40 feet, shingle roof, hot air heating, gas and electric lighting. Plans in progress. Architects will take bids about December 1st.

Fire House, Pitman, N. J. \$7,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Pitman Fire Company, No. 1, Pitman, N. J. Brick and frame, 2 stories. Plans in progress. Architects will take bids about December 15th.

Residence (alt. and add.), Seaside Park, N. J., \$3,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Charles S. Boyer, 525 Cooper street, Camden, N. J. Frame, 1½ stories, 20x35 feet, shingle roof. Plans in progress.

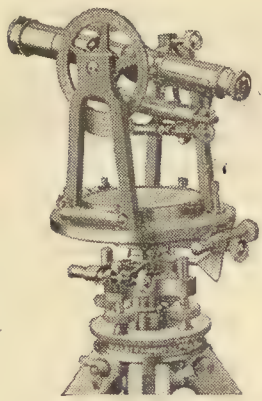
Residence, Collingswood, N. J. \$4,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Clarence N. Haven, Collingswood, N. J. Hollow tile and stucco, 2½ stories, 40x24 feet, shingle roof, hot water heating, gas and electric lighting. Plans in progress.

Residence, Washington Crossing, N. J. \$15,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, F. W. Harper, 840 Riverside avenue, Trenton, N. J. Brick, 2 stories, 34x54 feet, tile roof, electric lighting, hardwood floors, tile work, heating not decided. Plans in progress.

Residences (2), Trenton, N. J. \$4,000. Architect, private plans. Owner, Isaiah Birks, Foist Richey Building, Trenton, N. J. Cement blocks, 2½ stories, 14x38 feet each, slate roof, hot air heating, gas lighting. Owner is taking sub-bids.

Residences (2), Trenton, N. J. \$4,000. Architect, private plans. Owner, Peter S. Martinette, Homan and Hilton streets, Trenton. Brick and frame, 2½ stories, 16x40 feet each, slate roof, hot air heating, gas lighting. Owner is taking sub-bids.

Residences (3), Trenton, N. J. \$4,000. Architect, private plans. Owner, William H. Watson, 2 Park street, Trenton. Frame, 2 stories, 14x30 feet each, slate and tin roof, gas lighting, hot air heating. Owner is taking sub-bids.



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street, New York City. Owner, Marlborough Realty Co., Stamford, Conn. Brick, reinforced concrete and steel, 6 stories, 148x66 feet, asbestos roof, steam heating, electric lighting, composition floors, tile and marble work. Architect taking bids due November 30th. Chas. McCaul Co. 1713 Sansom street, Philadelphia, figuring.

High School, Charleston, W. Va. Architect, Frank L. Packard, Hayden Building, Columbus, Ohio. Owner, Board of Education, A. G. Higgenbotham, secretary, Charleston, W. Va. Brick, stone, concrete and steel, fireproof, 3 stories, 125x184 feet, slag roof, steam heating, electric lighting, dampproofing, enameled bricks, metal lath, safety treads. Owners taking bids due November 23rd. H. L. Brown, 1714 Sansom street, Philadelphia, is figuring, in addition to those previously reported.

Restaurant, 604 Sixth avenue, New York City. \$40,000. Architects, Stuckert & Sloan, 1420 Chestnut street, Philadelphia. Owner, Horn & Hardart Baking Company, 818 Chest-

nut street, Philadelphia. Brick, steel and terra cotta, 3 stories, 100x30 feet, slag roof, steam heating, electric lighting, tile and marble work, metal lath. Plans in progress. Architects will take bids in one month.

Ammunition Factory, New Castle, Del. Architect, private plans. Owner, Bethlehem Steel Company, Charles Lehr, Chief Engineer, South Bethlehem, Pa. Brick and concrete, 1 and 2 stories; magazine building, 22x12 feet; charge plant, 36x80 feet; office building, 32x45 feet; power house, 96x80 feet; shops, 62x27 feet, 102x27 feet, 82x27 feet and 102x27 feet, rubberoid and slag roofs, waterproofing, steel sash, steam heating. Owners taking bids. The following are figuring: F. Roe Searing, Perry Building; F. A. Havens Company, 845 North Nineteenth street; J. E. & A. L. Pennock, Land Title Building, all of Philadelphia; A. S. Reed & Bro. Co., 815 Shipley street, Wilmington, Del.; H. R. Leonard, Pennsgrove, N. J.; Leonard Construction company, 17 Battery Place, New York City.

Miscellaneous Contracts Awarded

Residences (3), Wilmington, Del. \$10,500. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Morris Binder, Third and King streets, Wilmington, Del. Brick, 2½ stories, 23x30 feet and 18x45 feet, slag, slate and tile roofs, steam heating, gas and electric lighting. Contract awarded to Joyce & Kerrigan, Wilmington, Del.

Residence alt. and add.), Claymont, Del. Owner, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owner, James Meharg, Ninth and King streets, Wilmington, Del. Brick and stucco, 2½ stories, shingle roof, electric lighting, composition floors, tile work, metal lath, dampproofing hot water heating reserved). Contract awarded to Wm. S. Bird, Claymont, Del.

Factory, Wilmington, Del. Architect, Leon W. Crawford, Odd Fellows' Temple, Wilmington, Del. Owners, W. W. Bottomley & Co., Fourth and Tatnall streets, Wilmington. Brick, 3 stories, 24x90 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Contract awarded to John E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Picture Theatre, Wilmington, Del. \$20,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 1000 French street, Wilmington, Del. Brick, stone trimmings, 2 stories 27x125 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to Charles Forwood, Twenty-first and Boulevard, Wilmington, Del.

Residence (alt. and add.), Wilmington, Del. \$2,500. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, T. P. Bienkowski, New Castle avenue and Heald street, Wilmington. Brick and stone, 1 story, 20x30 tin roof, steam heating, gas and electric

lighting, composition floors, metal ceilings. Contract awarded to Wm. Connelly, Wilmington, Del.

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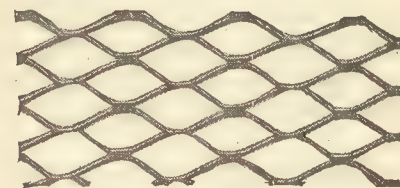
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MARYLAND Construction News

Church, Eutaw street and Madison avenue. \$200,000. Architects, Cram & Ferguson, 15 Beacon street, Boston, Mass. Owner, Mt. Calvary P. E. Church, Baltimore, Md. Stone, 1 story, 120x185 feet, slate roof, steam heating, electric lighting, tile work, composition floors. Plans in progress.

Store and Warehouse, 813 East Baltimore street, Baltimore, Md. \$10,000. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owners, A. Perel & Son, 913 East Baltimore street, Baltimore, Md. Brick, 3 stories, slag roof, steam heating, electric lighting. Plans in progress.

Church, Pimlico road and Elderslice avenue, Baltimore. Architects, Haskell & Barnes, 301 North Charles street, Baltimore. Owner, M. E. Congregation, 2522 North Charles street, Baltimore. Brick, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Store Building (alt. and add.), 106 North Howard street, Baltimore. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Aaron Straus, Equitable Building, Baltimore, Md. Brick, 3 stories, consists of new front and interior alterations, steam heating, electric lighting. Plans in progress.

Church and Sunday School, Milton avenue and Jefferson street, Baltimore, Md. \$18,000. Architect, F. C. Beall, 306 West Canal street, Baltimore. Owner, Exeter Memorial M. E. Church, Baltimore. Brick, stone trimmings, 1 story, 55x81 feet, slate roof, steam heating, electric lighting. Plans in progress.

Gate Lodge, Owings Mills, Md. \$6,000. Architects, Ellicott and Emmart, Union Trust Building, Baltimore. Owner, Rosewood State Training School, Owings Mills, Md. Stone, 2 stories, 35x31 feet, slate roof, steam heating, electric lighting. Plans in progress.

\$400. Store and dwelling, 1344 Passayunk avenue.

Faulant Coal Co. (O), Twenty-first and Westmoreland streets. John A. Girvin (C), 1317 South Lindenwood street. Cost, \$500. Coal yard, Thirtieth and Walnut streets.

Mrs. A. Jacobs (O), 2753 eGermantown avenue. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$1,000. Store and dwelling, 2753 Germantown avenue.

Smith, Dosino Co. (O), Lawrence and Allegheny avenue. Cost, \$2,500. oBiler and engine house, Lawrence and Allegheny avenue.

Mrs. Mary Polis (O), 8320 Eastwick avenue. S. Bannett & Sons (C), Drexel Building. Cost, \$525. Stores and dwelling, 8320 Eastwick avenue.

Mrs. Janet Spens (O), Wayne, Pa. Wm. C. Shuster, Jr. (C), Lansdowne, Pa. Cost, \$355. Residence, 6394 Drexel road.

M. J. Keenan (O), 4432 Lancaster avenue. Frank I. iWntz (C), 1618 North Twenty-seventh street. Cost, \$445. Store and dwelling, 4432 Lancaster avenue.

E. J. Spangler (O), 1237 North Howard street. E. F. Schlichter (C), 10 South Eighteenth street. Cost, \$350. Wood tank, 1237 North Howard street.

Alfred C. Magill (O), Wilmington, Del. Ayer & Carmean (C), 5130 Market street. Cost, \$325. Garage, Fiftieth and Race streets.

F. G. Herring (O), 447 Queen street. Cost, \$2,300. Garage, 445 Queen street, Germantown.

zAndrew and oJoseph Melville (O), 22 North Fifty-second street. Cost, \$500. Garage, 611 North Forty-second street.

Edwards Folding Box Co. (O), 526 Cuthbert street. Stewart Bros. (C), 2528 North Orkney street. Cost, \$525. Tank, 526 Cuthbert street.

Joseph Taylor (O), 1539 South Seventh street. Samuel Isenberg (C), 3849 Cambridge street. Cost, \$1,050. Store and dwelling, 1539 South Seventh street.

Thompson Adams Leh Co. (O), Frankford creek and Orthodox street. Woolford Wood Tank Mfg. Co. (C), 1429 Chestnut street. Cost, \$500. Wooden tank, Frankford creek and Orthodox street.

I. H. Marshland Sons (O), Ambler and Willard streets. Wm. Steele & Sons (C), Sixteenth and Arch streets. Cost, \$5,000. Factory, Collins and Willard streets.

John Geltz (O), 2822 Germantown avenue. J. P. McCorwell (C), 2104 North Fifth street. Cost, \$650. Store, 2542 Germantown avenue.

Michael Campbell (O), Eleventh and Race streets. D. F. Wholey (C), 1109 Indiana avenue. Cost, \$300. Residence, 2133 Race street.

William R. Wster Estate (O), 505 Chestnut street. F. E. Wallace (C), 1210 Sansom street. Cost, \$500. Store, 325 Market street.

Jacob oKmenarsky (O), 609 South Sixth street. Gilman & Chafqin (C), 936 Wolf street. Cost, \$600. Store and dwelling, 609 South Sixth street.

oJoseph Pesco (O), 316 Catherine street. Samuel Astroff (C), 617 Dickinson street. Cost, \$2,000. Dwelling, Third and Fulton streets.

Jos. Castia (O), 2102 South treet. Alex. McElheny (C), 1230 South Twenty-eighth street. Cost, \$350. Store front, 2102 South street.

Children's Homeopathic Hospital (O), Franklin and Thompson streets. Wm. Steele & Sons (C), 1600 Arch street. Cost, \$3,000. New skylight, etc., Franklin and Thompson streets.

Kennedy & Rambo (O), Broad and Butler streets. Borndt & Son (C), 1037 West Tioga street. Cost, \$725. Dwelling and two stores, 2329 North Smedley street.

Edward P. Mackin (O), 1116 Pine street. Chas. H. S. Zebley (C), Pine and Quince streets. Cost, \$2,500. Store and apartment, 4923 North Broad street.

Mrs. Diggle (O), 5944 Lansdowne avenue. William J. Reiner (C), 1541 North Sixtieth

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Consolidated Construction Co. (O), 1601 Tioga street. Cost, \$14,400. Eight dwellings, brick, 2 stories, 15x37 feet, slag roof, Richmond and Eddington streets. Cost, \$22,100. Thirteen dwellings, brick, 2 stories, 16x28 feet.

Yarrow & Van Pelt (O), Morris Building. Fred A. Havens Co. (C), 845 North Nineteenth street. Cost, \$51,000. Apartment house, 6 stories, 32x74 feet, 1330-32 Pine street.

Geo. Seebold (O), 131 East Wyoming avenue. Cost, \$4,000. Two dwellings, brick, 16x40 feet, Courtland and A streets.

Edw. G. Budd Mfg. Co. (O), Hunting Park avenue and Stokley street. John Jay Kelley (C), 2235 Oakdale street. Cost, \$1,500. Factory, Hunting Park avenue and Stokley street.

John M. Kennedy (O), Mutual Life Building. Cost, \$5,000. Storage and stable, 5722 Alden street, brick, 1 story, 104x38 feet.

S. K. oFster (O), Bustleton, Pa. John M. Stevens (C), Wayne, Pa. Cost, \$1,800. Barn and wagon house, Bustleton pike and Red Lion road.

Egnal & Saidel (O), 1023 Jackson street. B. Sardel (C), 1023 Jackson street. Cost, \$7,000. Two dwellings, brick, 3 stories 18x54 feet, Front and Lippincott streets. Cost,

\$12,000. Four dwellings, brick, 12x28 feet, 3 stories.

Herman Auth (O), 4231 Lackawanna street. Cost, \$7,200. Six dwellings, brick, 2 stories, 14x33 feet. Cost, \$1,500. One dwelling, brick, 2 stories, 14x42 feet, Church and Lackawanna streets.

Mrs. John Flad (O), Tansham and Oakley streets. M. Stevens (C), 912 Tansham street. Cost, \$4,350. Two dwellings, brick, 15x40 feet, 3 stories, Oakley and Knorr streets.

Calvin W. Rogers (O), 237 South Forty-ninth street. Cost, \$12,000. Tenement house, brick, 3 stories, 17x75 feet, 318 North Fortieth street.

Davis H. Shoull (O), 3340 North Broad street. Cost, \$15,600. Six dwellings, brick, 2 stories, 15x20 feet, Tenth and Duncannon streets.

John Lang Paper Co. (O), Twenty-fourth and Vine streets. Wm. H. Eddleman & Sons (C), 453 Green lane, Roxborough, Pa. Cost, \$19,000. Mill, brick and concrete, 64x60 feet, Twenty-fourth and Vine streets.

Consolidated Construction Company (O), 1601 Tioga street. Cost, \$22,100. Thirteen dwellings, brick, 2 stories, 26x28 feet, Alresford and Richmond streets. Cost, \$22,100. Thirteen dwellings, brick, 2 stories, 16x28 feet. Cost, \$10,800. Six dwellings, brick, 15x37 feet.

J. P. Fallon (C), 6036 Osage avenue. Cost, \$1,500. Garage, 910 Wynnewood avenue.

Frank Gilvey (O), 1219 Marlborough street. Edward T. Judge (C), 2972 Richmond street. Cost, \$1,100. Garage, 1220 East Oxford street.

Tony Elifante (O), 1344 Passayunk avenue. S. Sillitto (C), 618 Carpenter street. Cost,

Alterations and Additions

Lena Reck (O), 283 South Fifth street. Chris. Hoffman (C), 210 Dickinson street. Cost, \$1,950. Tenement house, fire escapes, 524 and 522 Spruce street.

A. Wing (O), Provident Building. Chris. Hoffman (C), 210 Dickinson street. Cost, \$500. Institute Building, fireescapes, 607 Church lane, Germantown.

Marie A. Wass (O), 1911 Wynnewood road.

street. Cost, \$300. Dwelling, 1543 on North Sixtieth street.

William Clegg (O), 4201 Germantown avenue. Wm. C. Beam (C), 4411 Germantown avenue. Cost, \$500. Saloon and dwelling, 4201 Germantown avenue.

S. J. Stapf (O), 4020 Girard avenue. J. W. Weiss (C), 239 North Watts street. Cost, \$300. Store and dwelling, 4020 Girard avenue.

M. Samuel (O), 1827 Chestnut street, Freund & Siedenbach (C), 307 Bulletin Building. Cost, \$1,100. Store and dwelling, 1827 Chestnut street.

Fidelity Trust Co. (O), 331 Chestnut street. Wm. Mayberry (C), 524 Walnut street. Cost, \$600. Dwelling, heating, 107 South Thirty-eighth street.

M. P. Wuinn (O), 6391 Drexel road. M. W. Young (C), Overbrook. Cost, \$300. Dwelling, 6391 Drexel road.

Chas. McDowell (O), Levering and Main streets. Wm. H. Eddleman & Sons (C), 453 Green lane. Cost, \$500. Coal shed and storage, P. R. A. and Levering street.

Stephen Di Orio (O), 775 South Eighth street. J. C. Magill (C), 5710 Chester avenue. Cost, \$4,000. Store and residence, Eighth and Catherine streets.

B. B. Santer (O), 1200 Poplar street. Wm. S. Snyder (C), 4502 Springfield avenue. Cost, \$1,000. Residence, 842-44 North Twelfth street.

Samuel M. Salus (O), 301-3 Morris Building. Solomon Bros. (C), 824 Snyder avenue. Cost, \$350. Residence, 109 Wharton street.

W. Kossoy (O), 1609 South Fifth street. Morris Gussman (C), 991 North Marshall street. Cost, \$500. Store and dwelling, 933 North Marshall street.

Dr. Chas. A. Service (O), City Line, Bala, Pa. J. P. Thompson (C), Real Estate Trust Building. Cost, \$450. Dwelling, City avenue and Belmont avenue.

Geo. W. Rudolph (O), 416 North Forty-first street. John McCann (C), 210 West Dauphin street. Cost, \$580. Dwelling, heating, 416 North Forty-first street.

Thos. Redding & Son (O), 709 Walnut street. A. A. Ardis (C), 219 South Fifth street. Cost, \$500. Stable, brick walls, 633 Addison street.

John G. Vogler (O), 4412 Chestnut street. William E. Stone & Son (C), 2069 East Dauphin street. Cost, \$350. Dwelling, 2069 East Dauphin street.

Penn Sugar Co. (O), 1037 North Delaware avenue. Guernsey O'Meara Co. (C), North American Building. Cost, \$2,000. Steel tank tower, 1037 North Delaware avenue.

Wm. H. Hoover (O), 451 North Third street. Wm. R. Dougherty (C), 1610 Sansom street. Cost, \$8,000. Store, 25 South Sixteenth street.

G. Reich (O), a Warnock and Diamond streets. Samuel Perlstein (C), 1614 Brown street. Cost, \$460. Store and dwelling, northwest corner Warnock and Diamond streets.

John S. Musselman (O), 139 West Loudon Eleanor street. Cost, \$450. Blacksmith shop, 139 West Loudon street.

B. Linker (O), Heed Building. John J. Sites (C), 2918 Fletcher street. Cost, \$1,700. Heating in manufactory, 06 Cherry street.

M. Nodler (O), 1533 North Franklin street. Harry Slass (C), 1809 North Seventh street. Cost, \$450. Store and dwelling, Twelfth and Brown streets.

Max Sarferd (O), 3209 Kensington avenue. Harry Brocklehurst (C), 512 West Norris street. Cost, \$1,700. Store, 3201 Kensington avenue. Cost, \$1,025. Stores, 3203-3205 Kensington avenue.

A FIRE TEST

The Fire-resisting Qualities of Metal Ceilings Compared with Plaster Ceilings.

The Associated Metal Ceiling Contractors of Greater New York conducted a test on Wednesday, November 11, at the Columbia Testing Station, Greenpoint, Brooklyn, by Prof. James S. McGregor, for determining the fire-resisting qualities of metal in comparison with plaster ceilings. The reinforced concrete structure in which these tests are made at Norman avenue and Monitor street, had been put in readiness for the occasion, with six different panels, two plaster and four metal ceilings, specified in the following manner:

Plaster on wood lath; plaster on metal lath; metal ceiling on wood furring; metal ceiling on metal-covered furring; metal ceiling on $\frac{7}{8}$ -inch wood sheathing; metal ceiling on wood furring and plaster boards to wood beams.

At the end of the test, which lasted exactly one hour and fifteen minutes, with a heat of 1,700 degrees, inspectors of the various departments having representatives present, rendered decisions in order of their superiority. No. 1, metal ceiling on plaster boards on wood furring; No. 2, metal ceilings on sheathing $\frac{7}{8}$ inch thick; No. 3, plaster ceiling on wire lath; No. 4, metal ceiling on metal-covered furring; No. 5, metal ceiling on wood furring; No. 6, plaster ceiling on wood lath. The plaster ceiling on wood lath fell twelve minutes after the start of the test.

The members of the association conducting the test were: The Acme Metal Ceiling Co., Baerlocher & Ohman, Berger Manufacturing Co., H. A. Berger, Brown Metal Ceiling Co., Canton Steel Ceiling Co., East Side Metal Ceiling Co., J. A. Manneck, New York Metal Ceiling Co., Northrup, Coburn & Dodge Co., Julius Oehrlein, S. Shanker, Standard Metal Ceiling Co., Sterling Ceiling & Lathing Co., Wheeling Corrugated Co., Garry Iron & Steel Co., all of New York, and the American Metal Ceiling Co., of Brooklyn.

The committee in charge of the test was W. O. Butler, of the Berger Manufacturing Co.; Charles J. Dodge, of the Garry Iron & Steel Co.; J. Randall, of the Brooklyn Metal Ceiling Co., and H. S. Northrop, of Northrup, Coburn & Dodge. Among those attending were G. Y. Langestro, Jr., inspector N. Y. B. F. U.; J. C. Upton, New York Metal Ceiling Co.; L. Berliant, Standard Metal Metal Ceiling Co.; S. Shanker, metal ceilings; J. D. Halley, Brooklyn Metal Ceiling Co.; George C. Baerlocher, of Baerlocher & Ohman; Max Rothbart, Acme Metal Ceiling Co.; Thomas F. Egan, Bureau of Commission; Robert J. Moorehead, Superintendent of Buildings, Bronx; Thos. Heatley, Special Inspector; John Ritter, of Garry Iron & Steel Co.; A. Doerffling, Wheeling Corrugated Co.; W. R. Lyman, Canton Steel Ceiling Co.;

Julius Oehrlein, metal ceilings; Wm. H. McCord, Department of Education; George D. Glass, Berger Manufacturing Co.; John W. Yohe, Canton Ceiling Co.; W. H. Gardner, Canton Art Metal Co.; S. D. Neale, J. B. King & Co.; J. Dixon, N. Y. F. D., B. of F. P.; W. Wolf, of Northrup, Coburn & Dodge Co.; B. J. Corcoran, Chief Inspector, Tenement House Department; W. A. Robertson, Chief Inspector, Tenement House Department; George E. Strehan, Building Department, Manhattan Borough; E. Wilkinson, Brooklyn Building Department; Ira H. Woolson, of National Board Fire Underwriters; H. E. Perrine, engineer, Columbia University; Harold K. Hughes, engineer, testing S. F. D.; E. Fickinger, R. W. Van Horn and Ray T. Langenbach, Berger Manufacturing Co.; Edgar Biechele, metal ceilings; Safety Engineering, publishers; J. A. Manneck, metal ceilings; Peter G. Spence, Civil Engineer, Chief Div. Eng.; Henry G. Sad, advertising. The association has for its president, A. Doerffling, and for secretary and treasurer, M. Wolf.

An investigation has been made by "Bradstreet's" of building-operations in 149 American cities during the first nine months of the present year. The result shows "a marked shrinkage" in the value of building-construction planned or completed, but only a small decrease in the number of enterprises. In value, the decline is \$58,000,000, or 8.3 per cent.; in the number of structures planned, it was 1,568 in a total of 211,983, or seven-tenths of one per cent. In these declines, the only important ones occurred in the Middle States. In New England and the South they were "trifling." In newer sections of the West there was an actual gain.

"It is worth noting that New York City (four boroughs reporting) does not exhibit a decrease in permits, but actually contributes a gain, while the decrease in values is only 4.6 per cent. This showing is, however, made possible by increased activity—in other words, in small construction—in the outlying boroughs of Brooklyn and Queens, while Manhattan and the Bronx show decreases. In fact, the decrease in value of new construction in old New York (Manhattan) is \$13,729,000, or 25 per cent., while the decrease in all New York is only 4.6 per cent.

"Chicago shows a decrease of 7.9 per cent., Philadelphia of 7.1 per cent., Boston of 4 per cent., San Francisco of 32 per cent., and Los Angeles of 41 per cent. The list of cities showing gains is a long one, including Cleveland with 17 per cent., Baltimore 45 per cent., Detroit 5 per cent., Pittsburgh 18 per cent., Minneapolis 34 per cent., St. Paul 70 per cent., and Seattle 32 per cent. gain.

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

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Irving Dillon. Editor

PHILADELPHIA, PA., NOVEMBER 25, 1914.

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Editorial Comment

In no other department of contemporary architecture do we find more convincing evidence of the growth of the doctrine of noblesse oblige, artistically speaking, than is shown in the field of factory design. Time was when the word "factory" meant a box-like structure, the component parts of which were four good walls and a roof. The more hideously unprepossessing the "design,"—if a structure making no pretensions whatsoever to design, may be included within the sweep of this much-abused word,—the better the job. The man who wanted a factory built asked simply a covering for his machinery and employees, a covering stout enough to resist the weather and sturdy enough not to disintegrate under such levies as shock reverberation, stress and strain; levies incidental to the carrying on of heavy and taxing mechanical processes. Not until within the past decade did it come to be generally recognized that an attractive industrial environment meant increased unit and mass efficiency among the workers.

Humanitarian and sociological research slowly developed this now universally recognized fact in the conservation of human efficiency. It was discovered that in a well-lighted, properly ventilated and roomy workroom, the average of efficiency was materially increased; that labor worked better, worked more cheerfully and gave better economic results under wholesome living conditions in the factory than were to be had under the former system of inattention to light and air and sanitation and the driving power of greed and materialism.

To-day the owner who would seek to erect a factory building in disregard of the principles of design and without reference to the health physical well-being and comfort of its inmates would be classed as an enemy to society and would perceptibly lose caste even among his own kind. The factory is no longer regarded as a roofed box, destitute of grace and indifferent to every convenience of modern living. The architect who is called upon to design a factory has come to realize the obligation that rests upon the employer of labor to conserve the health, the vitality and initiative of those who are to do his work,—the obligation that is his to provide them with decent conditions—light, air, cheerful outlook and wholesome surroundings. He recognizes, too, the obligation that rests upon the owner to make the structure, architecturally, as little hideous as its utilitarian requirements may allow. The result is a new school of design—a series of industrial buildings which, while not, perhaps, strictly beautiful as such, are not without a certain pleasing grace of outline and which are certainly a vast improvement over the conditions of other years. The same humanitarian impulse which has brought about this wholesome change in factory design is bringing about the notable

betterment discernible in factory outlook. Plots of green, beds of flowering plants, attractive and restful bits of shrubbery are now common to the grounds of industrial establishments of the better class. Twenty years ago money expended to beautify factory surroundings would have been regarded as a mad and utopian waste of funds. We are improving. In factory design as in lesser and in greater things—progressing sensibly to an appreciation of the essential dignity and importance of labor and to a definite understanding of the duty which rests upon the employer to lighten and to make tolerable the lot of "the man beneath."

* * *

New York's building height ordinance promises to become an accomplished fact.

Alderman Hamilton, it is announced, will introduce at the meeting of the Board of Aldermen an ordinance regulating the height, size and arrangement of buildings. This ordinance will embody the recommendations of the Heights of Buildings Commission to the Board of Estimate last spring. Under the charter such an ordinance must have the approval not only of the Board of Aldermen, but also of the Board of Estimate, and it is probable that a joint public hearing will be arranged by the two Boards in the near future.

The ordinance will provide that any wall bordering on a street will be limited in height to twice the width of the street, but in no case more than 300 feet, but when a street is less than fifty feet in width such walls may go to a height of 100 feet. The building may extend above the limiting heights for the street walls, provided it does not project beyond a plane starting at the limiting heights for street walls and inclining upward and backward from the street at the ratio of one foot horizontally for each four feet vertically.

It is further provided that towers which do not cover an area of more than 25 per cent. of the lot may be carried above the limiting heights and beyond the set back planes if they are kept at all points at least twenty feet from the lot lines. In the case of a building fronting on a public square or park or a body of water more than 150 feet in width such towers may be placed on the street facing such square, park or water. Church spires and chimneys for manufacturing or power plants are exempted from these limitations.

It is further provided that yards shall be left at the rear of every building except such as are located on corners or run through from street to street. The depth of such yards is to be one-tenth of the depth of the lot, and the area contained in such yards shall be at least one-tenth of the area of the lot. These yards start at the second story floor level and are to be increased in each story at least

1 per cent. for each story above the first, unless the equivalent of the additional area is provided in lawful courts. This means that where there are no courts and the building is dependent for its light entirely on the rear yard, the yard at the second story would be at least 11 per cent. of the lot area; at the third story, 12 per cent. of the lot area, and so on.

In the case of buildings running through from street to street courts must be provided of an aggregate area equal to the area prescribed for yards. In the case of corner buildings courts must have at least a dimension at any point of six feet. The width of a court at any point in the height of a building must be one and one-quarter inches for every foot that that point is above the curb level. In other words, in a ten-story building at a point sixty feet above the curb level the court must be six feet three inches wide; at the top of the building, which would be about 120 feet above the curb, the court must be twelve feet six inches wide.

The purpose of these restrictions is not so much for the protection of the owner of the property on which the building is to be erected as for his neighbors, who might otherwise be deprived of their ability to get adequate light and ventilation if the owner were permitted to cover his entire lot or cover it in an indiscriminate way.

These provisions will apply generally throughout the city.

* * *

Concrete, reinforced with steel, probably will displace brick for the construction of city sewers, from the smaller pipe lines of 2 to 3 feet in diameter to the huge intercepting sewers of 20 feet or more.

The proposed change in construction has been carefully considered by engineers of the Philadelphia Bureau of Surveys. Convinced as to the economy and durability of the larger concrete sewers, they were skeptical as to the desirability of solid concrete for the smaller pipe lines.

The concrete enforced with steel, however, the engineers have come to believe, will outlast brick and, at the same time, will furnish solid tubes, impervious to infiltration from ground waters. This is one of the factors sought in all sewer construction to prevent pollution of the Delaware and Schuylkill and to safeguard health. Furthermore, experiments show that the reinforced sewers of comparatively small diameter can be constructed as cheap or cheaper than brick.

In some Southern and Western States, in Germany, Holland and Belgium and, to a limited extent, in England, reinforced concrete sewers have proved satisfactory and are coming into general use.

The Survey Bureau is building about a mile of reinforced concrete sewers of 3 feet or less in diameter in Wagner avenue, between Twelfth and Clarkson streets; in Fisher's avenue, between Rising Sun lane and Heller street, and in Tabor road, between Front and Second streets. One of these pipe lines is circular, with a diameter of 3 feet,

and the cost a foot follows: Reinforced concrete, \$5.10, as compared with cost of brick construction (double layers) of \$7.50, or a saving of \$2.40 a foot. The other two pipe lines are egg shape, measuring 2 feet by 3 feet, and the contract price is \$4.72 a foot, as compared with single brick construction of \$4.25. In this smaller pipe, the brick is lower in cost, but here again the survey engineers argue that the durability and smoothness of the concrete fully compensate for its slightly higher cost.

In the larger sewers concrete has been used by the Bureau for more than sixteen years, but construction of the small pipe lines was not altogether practical until mechanical means were found for constructing the pipe in short lengths, then laying them in trenches and connecting them by interlocking joints.

* * *

There are 1,300 miles of sewers in the streets of Philadelphia, so that any change made by the Survey Bureau in methods of construction is of great moment. The Bureau now is turning its attention particularly to methods for obviating the danger of gasoline from automobiles penetrating sewers. Engineers, in discussing this danger, cited an instance in one city where a lighted match in a conduit containing gasoline fumes caused the wreckage of sewers costing \$250,000, with damage of possibly an equal amount to adjacent properties.

On this subject Chief Engineer Webster said: "In the manufacture of reinforced sewer pipe each section is subjected to a test load of three or four times its prescribed carrying ability, and is also required to withstand an internal hydraulic pressure of 10 pounds per square inch without cracking or undue sweating or leakage.

"This latter requirement is considered to be of distinct advantage in case of possible explosion due to gasoline fumes which have proved so disastrous in other cities in sewers of brick construction.

"The importance, therefore, of working to the correction of this evil, not only in the construction of modern sewers, but in legislation to exclude gasoline, as far as possible, from the sewer system, should be apparent to all. It may be said that such legislation is in process of preparation and is receiving earnest consideration at the present time."

MOST EXPENSIVE ADVERTISING.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

SCRANTON (PA.) DRAUGHTSMEN FORM AN ATELIER.

At a meeting of architectural draughtsmen of the city for the purposes of establishing an Atelier of the Society of Beaux Arts Architects, it was decided to open a studio here and to call it the Scranton Tee Square Society. The object of the society is to cultivate and perpetuate the principles and associations of the Ecole des Beaux Arts. The architects of that branch have established a course in architectural design and study of architecture consisting of a series of competitions, modeled on the system of instruction of the Ecole des Beaux Arts of Paris.

H. A. Duckworth has been appointed by the chairman of the committee of education of the society and will have full charge of the competitions here. John B. Thomson was elected temporary secretary and treasurer.

About fifteen have qualified to take these competitions, the first to be given November 28th, at the rooms of the Atelier. There has been great interest shown in this movement by those interested in good architecture.

THE SAGENDORPH CO. MOVES INTO LARGER QUARTERS.

Saum's Preservative for wood and concrete has produced results so satisfactory to architects, contractors and owners of new and old buildings, that the Sagendorph Company, distributors for Eastern Pennsylvania, Southern New Jersey, Delaware and Maryland, have been compelled to seek larger quarters.

Now located at 131-133 South Twenty-fourth street, where the show rooms, warehouse and sales offices are operated together, the Sagendorph Company can better display and demonstrate the merits of Saum's Preservative, the permanent preventive of splintering and dry rot in wood and dusting and disintegrating in concrete.

Leading architects throughout the country are specifying Saum's, and the results achieved by this product well merit the consideration of architects and builders.



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I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

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May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try.

—Ex.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**George P. Blackiston, advertising manager of the Berger Manufacturing Company, Canton, Ohio, and of other companies in that city, has been appointed publicity manager of the Canton Chamber of Commerce, and in addition to his present duties will assist in promoting various campaigns of the chamber, including one to secure the location of more industries in Canton.

**Moses Berman, architect and engineer, with offices at 702 Willoughby avenue, Brooklyn, N. Y., desires to receive copies of manufacturers' catalogues and samples.

**Cassens Manufacturing Company, Edwardsville, Ill., calls attention in a 16-page pamphlet to the merits of Cassens Ideal eaves trough, conductor pipe and sheet metal goods which it manufactures. The construction of the eaves trough is such that it cannot fill up with rubbish of any kind and it does not in any way interfere with the roof. The body of the Ideal is nailed to the cornice and then the cover is put on. The lid is made in 5 feet sections. The claim is made that it can easily be removed at any time to paint the inside of the trough.

**A New-Process Tile for building construction and glazed without the use of lead is being placed on the market by the Clifton Porcelain Tile Company, 51 Clifton street, Newark, N. J. It is the invention of Charles Stegmayer, and strong claims are made for it.

**Indicative of the merits of the batch mixer made by the Blystone Manufacturing Company, Cambridge Springs, Pa., it is interesting to note that 50 of its concrete mixers were used in connection with the construction work of the Panama-Pacific International Exposition, which will open in February at San Francisco, Cal.

**The Gun-Crete Company, of Chicago, Ill., makes announcement that it has purchased all the rights, titles, contracts and interests of the Cement-Gun Construction Company, and has also taken over the construction department of the General Cement-Gun Company. In future the combined business will be conducted under the style and title of Cement-Gun Construction Company, with offices at 914 South Michigan avenue, Chicago, Ill. The officers of the new business are: President, Carl Webber; secretary and treasurer, John V. Schaefer, and construction manager, C. L. Dewey. In addition to doing all forms of cement-gun construction work, the company will also sell and lease complete cement-gun equipments.

**Roy E. Guard, architect, Masonic Building, Norwich, N. Y., desires information at once on imitation marble and interior marble

columns, kitchen equipment, steam tables, broilers, plate warmers and dish washers.

**Ernest F. Guilbert, of Newark, is to give a course of lectures at Teachers' College, Columbia University, on "School Buildings and Their Equipment."

**The Architectural Cornice and Skylight Works, A. Sommerfeld, president, formerly at 4121 Park avenue, New York, have removed their offices and factory to 4077-4085 Park avenue.

**The Manufacturers' and Dealers' Protective Association has moved its headquarters from 20 Broad street to the Liberty Tower Building, 55 Liberty street, New York City, where is also located the offices of the secretary, Raymond Hull Noble.

**At the recent joint meeting of the Refractory Brick Manufacturers' Association, the National Paving Brick Manufacturers' Association and the American Face Brick Association, held in the Fort Pitt Hotel, Pittsburgh, Pa., the subject of cost accounting was given much attention.

**Pierce, Butler & Pierce Manufacturing Company have purchased from the Colwell Lead Company its jobbing houses at 32 Forster street, Worcester, Mass., 3103 Third avenue, Bronx, and 359 Pearl street, Brooklyn. All sales, contracts and orders previously placed with the Colwell Lead Company will be carried out and filled without delay or confusion. The Colwell Lead Company will continue as a manufacturing concern with plants at Elizabeth, N. J.; Detroit, Mich., and Windsor, Can.

**Warren Webster & Co., Camden, N. J., announce that Samuel C. Bloom, who has been connected with the company's air conditioning department at Camden for several years, has been transferred to the company's New York office, where he will be in a position to give special attention to this branch of the business, co-operating with architects, engineers and others interested in air conditioning problems.

**The C. & C. Electric & Manufacturing Company, Garwood, N. J., reports having recently closed contracts for ventilating, fan and blower motors for installation in the Yale Club, Grand Central Station and Aetna Life Insurance Company buildings and the Harvard and Knickerbocker Clubs, in New York.

**Ralph Adams Cram has been appointed to the chair vacated by James Knox Taylor in the Department of Architecture of the Massachusetts Institute of Technology. Announcement is also made that Prof. William H. Lawrence, a graduate of the institute, for many years professor of architectural en-

gineering in the department, has become chairman of the Department of Architecture.

**J. Irvine Lyle, of the Carrier Air Conditioning Company, New York, delivered an illustrated address on the subject of humidity and dust removal at the Modern Science Club, Brooklyn, October 20.

**James F. Conran has been appointed general sales manager of the Standard Sanitary Manufacturing Company, Pittsburgh, Pa. He was until recently manager of the company's New York branch. His headquarters are now in Pittsburgh.

**Walter B. Snow, publicity engineer, Boston, Mass., announces the removal of his offices to rooms 511516 in the new Federal Street Building, 136 Federal street.

**The Eastern Supply Association, at its annual meeting in New York, October 14, elected the following officers: President, L. O. Koven, L. O. Koven & Bro., New York, (re-elected); first vice-president, G. R. Adams, Samuel Sloan Company, Rochester, N. Y.; second vice-president, Joseph F. Evans, Wyoming Valley Supply and Manufacturing Company, Wilkes-Barre, Pa.; treasurer, Martin Behrer, Behrer & Co., New York; secretary, Frank S. Hanley, New York. Board of Directors: L. O. Koven, G. R. Adams, Joseph F. Evans, Martin Behrer, W. L. Blake, James F. Conran, James P. McPhail and A. A. Tomlinson; advisory, P. M. Beecher, Syracuse, N. Y. One hundred and fifty members were registered at the meeting. The principal speakers were John C. Reed, consulting engineer for the Standard Sanitary Manufacturing Company, who spoke on "The Manufacture of Enameled Ware," and G. R. Adams, of Samuel Sloan & Co., who discussed "Some Ways by Which Service May Become the Right Arm of Success." A report was presented by the Committee on Secured Accounts which favored a plan for the extension of

credits through measures of security afforded by the credit forms adopted. The meeting was presided over by L. O. Koven.

**Following are the nominations made by the Nominating Committee of the American Society of Heating and Ventilating Engineers for 1915: For president, Dwight D. Kimball, New York; for first vice-president, Harry M. Hart, Chicago; for second vice-president, Frank T. Chapman, New York; for treasurer, Homer Addams, New York; for managers, Frank Irving Cooper, Boston; Dr. E. Vernon Hill, Chicago; W. M. Kingsbury, Cleveland; Samuel C. Lewis, Chicago; Frank G. McCann, New York; J. T. J. Mellon, Philadelphia; Henry C. Meyer, Jr., New York, and Arthur K. Ohmes, New York. In a circular sent out by the society announcing the nominations, it is stated that the annual meeting will be held in New York January 19-21, 1915. Two of the sessions will be symposiums on ventilation. Among the speakers who have already promised to take part are Prof. Frederic Bass, Minneapolis, Minn.; Prof. C. E. A. Winslow, New York; Profs. G. C. and M. C. Whipple, Cambridge, Mass.; Prof. J. W. Sheppard, Chicago; Dr. T. R. Crowder, Chicago; Dr. C. T. Graham-Rogers, New York; Dr. M. W. Franklin, Bloomfield, N. J.; D. D. Kimball, New York, and Reginald Pelham Balton, New York.

**The Nominating Committee of the American Society of Mechanical Engineers has presented the following ticket for officers of the society for 1915: For president, Dr. John A. Brashear, Pittsburgh; for vice-presidents, Henry Hess, Philadelphia; George W. Dickie, San Francisco, and James E. Sague, Poughkeepsie, N. Y.; for managers, Charles T. Main, Boston; Spencer Miller, New York and Max Tolz, St. Paul; and to fill the unexpired term of the late Alfred Noble, Marris L. Cooke, Philadelphia; for treasurer, William H. Wiley, New York.

to the expert view of town planning and not to the administrative or political view. Town planning with us has largely grown out of the garden city or the garden suburb movement, each, at their best, very excellent in themselves, but representing only a part of the problem with which we have to deal. The garden city is to some extent a thing apart from and even in conflict with existing town development. The future growth of the movement will depend on the disintegration rather than in the expansion of towns that have grown up in the past.

"The garden suburb expresses, even in a lesser degree than the garden city, what is meant by town planning. It is desirable that the suburbs of our towns should be developed on healthy and spacious lines, but suburb planning is not town planning and a suburb might be laid out in an excellent manner as a detached unit without any regard being given to its relation to the town of which it forms part. The industrial part of city life, and the problem of transit as it concerns the city as a whole, are usually ignored in the development of the small suburb. Garden suburbs are also concerned with the development of single estates, but it is of the essence of town planning that the interests of many owners and even of several public authorities may be co-related and harmonized.

"Those, therefore, who conceive town planning to be merely an extension of the excellent housing activities which are carried on by private enterprise in this country have not learned to comprehend its full or proper meaning. It is true that in placing housing in the forefront of the movement, largely I believe as a result of the good work done by those who have promoted garden cities and suburbs, we have taken into our purview an aspect of town planning that is fundamental, in any right conception of what it means, and an aspect which has been overlooked in Germany and America. But I think we have come to look upon town planning in Great Britain as something more comprehensive than the control either of housing, or of transit, or of sanitation, just as the Americans have come to regard city planning as having a wider meaning than the development of civic centers and park systems.

"That is the conception of town planning which was driven home at the Conference at Toronto, and which, I believe, resulted in the Conference breaking up with a wider outlook on the subject, on the part of the delegates, than his hitherto prevailed. It may appear to be a somewhat idealistic point of view, but it is better to begin from that high standpoint and work downwards as a result of experience rather than to go on as in the past, each with a different idea of what town planning means, and each striving to uphold that which is most agreeable to our personal prejudices and satisfying to our local conditions."

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—Ex.

AMERICAN TOWN PLANNING

It is interesting to note from an English standpoint the numerous changes that are taking place in town planning in America. Possibly such of us who have given the matter serious thought have not observed and cannot observe that there really are changes taking place, especially in the most populous sections.

It being true in all new countries that people are content in the beginning with crude settings of pleasure and convenience, it must have been true of America, that thus far small concern has been manifested in this direction. This writer says the American view has been circumscribed within two narrow limits and makes the same charge against the British. He says:

"It is now recognized that the highway and the home, the railroad and the waterway and all that goes to make up the complex character of city life and growth have not

only organic relation to the administrative centers and recreation places of towns, but are in a sense the first matters to consider. Provision for shelter, for food supply, for work and for transit are the fundamental things in communal life; next comes facilities for education, and last, though not necessarily least, the public playground and the civic center. That is the point of view to which by a gradual but an unmistakable process we are all arriving. It follows that while the American view has been circumscribed within too narrow limits, so also has the British view.

"In Great Britain we have (says 'The Town Planning Review') not been so indifferent to the main essentials as town planners in other countries have been, but even our view has been limited and narrow because we have hardly accustomed ourselves to what town planning really means. I am referring

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THE McKINLEY MEMORIAL.

Seven architects will compete for the prize offered through a committee of the American Institute of Architects, for the best plans and drawings for The National McKinley Birthplace Memorial, to be erected at Niles, O. The architects are Henry Bacon, 101 Park avenue, N. Y.; Cass Gilbert, 11 E. Twenty-fourth street, N. Y.; McKim, Mead & White, 150 Fifth avenue, N. Y.; H. Van Buren Magonigle, 101 Park avenue, N. Y.; Palmer, Hornbostel & Jones and J. L. Decker, associated, 63 Williams street, N. Y., and J. L. Decker, Niles, Ohio, and Zantzinger, Borie & Medary, 139 South Fifteenth street, Philadelphia, Pa.

J. C. Butler, Jr., of Youngstown, vice-president of the association, says that the name of the architect will be announced as soon as the selection is made.

It has now been so long since Congress, at the close of President Roosevelt's term, authorized the Memorial Association, that a greater portion of the public has long since forgotten what it is proposed to do, much less architects, who are first interested, because of the honor attached to the drawing of the plans.

The bill creating the association was the first bill signed by President Taft following his election. It was proposed to erect the memorial as a popular testimonial without a general public appeal, and the association has succeeded splendidly. It has been decided to issue a public appeal, however, for the purpose of raising an endowment. The latter will embrace a plan that is certain to appeal to the familiar with the life of the martyr-president.

To all who give \$1.00 or more a life membership certificate and a handsomely bound book, the life of McKinley, with his portrait will be given. Of this portrait, Chief Justice McKenna has said it is the best portrait of the dead president extant.

It is planned to make the memorial the finest in the country. The city of Niles has given a site for the structure. This site includes five acres of ground. There has been raised \$200,000 for the building. The design of the memorial will be left to the Institute of Architects and the trustees. The building will have an auditorium that will seat 1,000 persons. It is proposed to make the structure useful as well as ornamental. It will have a public library; a relic room to contain personal and historical objects connected with the life of McKinley; an assembly hall for the meeting of the G. A. R. and soldiers

of the Spanish-American war, and a room for the meetings of city officials.

The building will be twostories with a basement. Granite will be used in the construction.

A life figure of McKinley will face the main entrance of the memorial, and bronze busts of men associated with him in the affairs of the nation will have place in the building. These men are the ex-presidents, William Taft and Theodore Roosevelt, Senator M. A. Hanna, and James Ward, Sr., a pioneer iron manufacturer of Niles.

It is certain that time will in no way detract from the interest in the memorial, though this interest may lay dormant until the association is prepared to collect the endowment funds.

To architects the memorial will be of the greatest immediate interest, because of the exceptional honor that will be his that succeeds in winning the prize.

BASED ON ACTUAL EXPERIENCE.

I was working on a job in San Bernardino, Cal., as "rough carpenter" in the erection of a large concrete precooling plant. I had had but little experience in the carpentering line—that's why I was just a rough carpenter. Walking around on high scaffolding and hanging on by the skin of my teeth were tricks of the trade that I didn't relish. I was tender at the job, you see.

One day Charlie, the boss, beckoned to another fellow and me to "come up" and lay out some boards for scaffold flooring, which we did. But I was not quite so bold as was Williams, the "other fellow." He would lay out a board and walk upon it instantly in sheer recklessness—so it looked to me. I couldn't help but stand back and admire his nerve, and I even remarked about it to him. He just laughed at me though when I hinted at danger. He said there was "absolutely no danger"—that it was just a matter of getting accustomed to it.

He had no more than said that, however, when down he went. He had stepped upon a board in which there was a knot that weakened the board sufficiently to allow him to go through. He fell about 20 feet, striking a concrete beam with his back, and the concrete floor with his head. It was a very hot day—about 107 degrees F.—as is usual in the summer time in San Bernardino, which made blood flow easily. The shock did not knock him unconscious exactly, but he got up and pranced around like a maniac, pawing the

air with his hands, uttering sounds that cannot be described by my pen, and blood flowing out of his ears and nose like rivers—so it seemed to me, a tenderfoot.

Save for a weak back for several weeks, Williams pulled through all right. But if I was tender before that accident, I was even tenderer afterwards. Knots in boards loomed up about twenty times their actual size. Whenever I stepped upon a board in which there was a knot I felt as though my hour had come. Mental pictures of Williams pawing the air in his bloody face were ever in my mind.

I worked at the job a long while after that and gradually became hardened into the danger. The fact that the other carpenters seemed to think nothing of knots and weak scaffolding had a telling effect, and bye and bye even I became reckless. It isn't easy to always bear the SAFETY FIRST sign in mind, although at that time the Safety First slogan did not exist.

Nevertheless, the fact remains, that right after an accident such as I have described, the knots look powerfully large and dangerous, even though the boards may be amply safe.

It is evident to me now, though, that carpenters in those days were unnecessarily careless—if carelessness is ever necessary. In our endeavor to do as much as possible in one day's work we virtually risked our lives many times. Rather than spend extra time searching for a sound board or plank for scaffolding, we took the first thing that came along, and if any man had the temerity to suggest danger he would be called a coward, not only by the boss, but by his fellow laborers.

There is a happy medium, of course, in this Safety First crusade. Don't try to make yourself ridiculously safe and don't be foolishly reckless. Be moderate. But if a man calls you a coward for taking out a dangerous board and replacing it with a safe one, pay no attention to him.—W. F. Schaphorst, in "American Carpenter and Builder."

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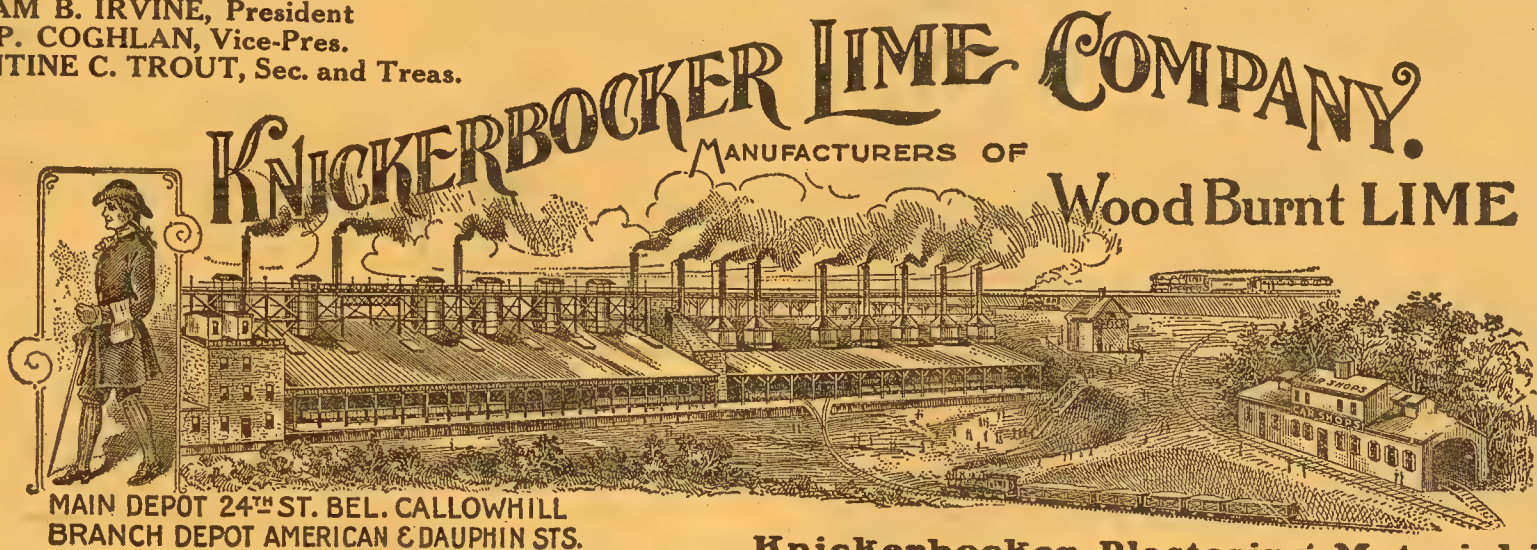
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Vol. XXIX., No. 48.

PHILADELPHIA, WEDNESDAY, DECEMBER 2, 1914.

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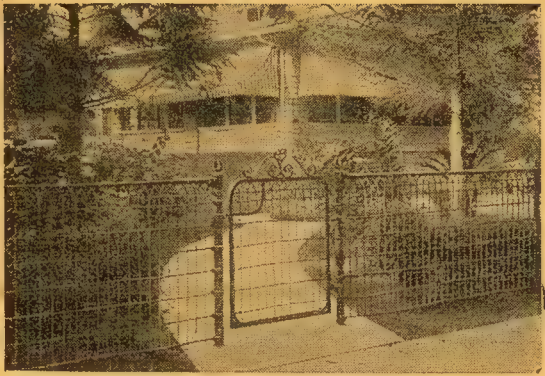
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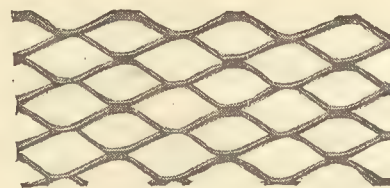
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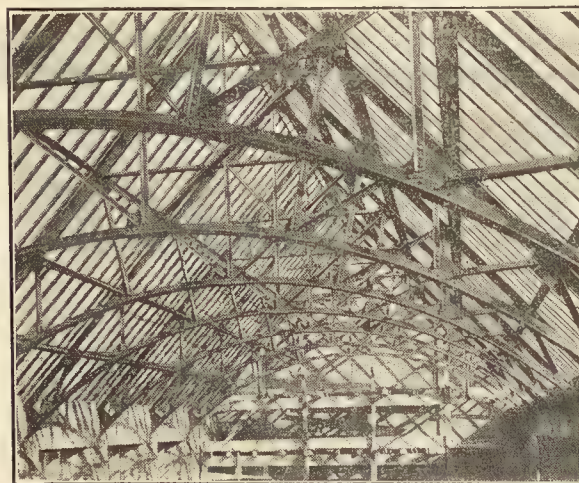
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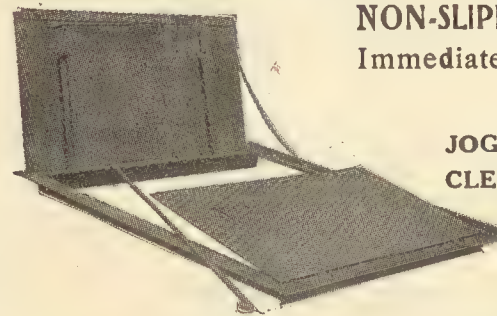


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Vol. XXIX., No. 48.

PHILADELPHIA, WEDNESDAY, DECEMBER 2, 1914.

Less than One Year
15 Cents per Copy

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Warehouse, Kensington avenue and Hilton street, Philadelphia. Architect, Charles W. Denny, Hale Building, Philadelphia. Owner, Charles Devlin, 3219 Kensington avenue, Philadelphia. Brick, 2 stories, 40x72 feet, slag roof, hot water heating, elevators (lighting reserved). Architect has received bids.

Bakery, 2335 Sedgley avenue, Philadelphia. Architect, private plans. Owner, Tasty Baking Co., on premises. Brick, 2 stories, 55x100 feet, slag roof (heating and lighting reserved). Owners taking bids due December 3rd. George C. Fossel, 128 East Cheltenham avenue; Jos. F. Myers, Jr., & Co., 1237 Ridge avenue; Barclay White Co., Perry Building, Philadelphia, are figuring.

Dairy, Forty-eighth and Parrish streets, Philadelphia. Architects, Shore & Dodge, 608 Chestnut street, Philadelphia. Owner, Robert E. Powell, 884 North Forty-eighth street, Philadelphia. Brick, steel and terra cotta and concrete, 3 stories, 80x125 feet, slag roof (heating and lighting reserved), enameled brick. Architect taking bids due December 3rd. The following are figuring: Railey-Lush Co., 201 North Broad street; Doyle & Co., 1519 Sansom street; Irwin & Leighton, 126 North Twelfth street; Stacy Reeves & Sons, 2011 Market street; Burd P. Evans Co., Thirteenth and Wallace streets; Charles Gilpin, Harrison Building; McCloskey-Bahls, Hale Building; Metzger & Fisher, Denckla Building, all of Philadelphia.

Church, Stiles and Margaretta streets, Frankford, Philadelphia. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford. Owner, Independent Greek Catholic Church, 4565 Stiles street. Brick, 1 story, 40x85 feet, slate and slag roof, steam heating, electric lighting. Owners taking bids due December 2nd. Geo. Gray, 4330 Factory street, and A. Siminski, Richmond street and Allegheny avenue, Philadelphia, are figuring.

Store (alt.) Seventeenth below Market street, Philadelphia. Architect, Robert Wilson Pollock, 1802 Chestnut street, Philadelphia. Owner, Joseph Stephens, Pennsylvania Building, Philadelphia. Brick, 3 stories. Consists of general alterations. Plans in progress.

Residence, Broad and Bristol streets, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square Building, Philadelphia. Owner, R. G. Ledig, 1705 Allegheny avenue, Philadelphia. Brick, stone trimmings, 3 stories, 20x50 feet, steam heating, gas and electric lighting, hardwood floors. Revised plans in progress.

Machine Shop, Twenty-second and Clearfield streets, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Jacob Hornung, Twenty-second and Clearfield streets, Philadelphia. Brick and concrete, 2 stories, 36x60 feet, slag roof, steam heating, electric lighting. Architects taking bids, due December 9th. The following are figuring: P. Haibach Contracting Co., Twenty-sixth and Thompson streets; George Kessler Const. Co., Drexel Building; A. Raymond Raff, 1635 Thompson street, and E. E. Hollenbach, Fifteenth and Race streets, Philadelphia.

Bakery, 2335 Sedgley avenue, Philadelphia. Architect, private plans. Owner, Tasty Baking Co., on premises. Brick, 2 stories, 55x100 feet, slag roof (heating and lighting reserved). In addition to those previously reported, Barclay White Co., Perry Building, Philadelphia, is figuring.

Hospital (add.), Corinthian and Girard avenues, Philadelphia. Architect, Frank A. Rommel, 1524 Chestnut street, Philadelphia. Owner, German Hospital, on premises. Brick, 2 stories, 24x40 feet, copper roof, steam heating, electric lighting. Architect taking bids, due December 7th. Roydhouse-Arey Company, Fidelity Building, and A. Raymond Raff, 1635 Thompson street, Philadelphia, are figuring.

Bath House, Theatre and Residences (4), Thirty-first and Wilt streets, Philadelphia. \$100,000. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owners, Joseph Fisher and M. Lessey, 722 Sansom street, Philadelphia. Brick and steel, fireproof, 2 and 3 stories, 92x130 feet, slag roof, hot water heating, electric lighting, oak floors, metal lath, waterproofing, enamel brick, swimming pool, metal frames and sash. Plans in progress.

Laboratory, 307-309 New street, Philadelphia. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owners, England, Walton & Co., Third and Vine streets, Philadelphia. Brick and concrete, fireproof, 2 stories, 25x45 feet, slag roof, waterproofing, metal lath, concrete floors (heating, electric work and plumbing separate bids). Revised plans in progress. Bids in a few days.

Boiler House (alt. and add.), 1914 North Fourth street, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Querns Bros., on premises. Brick, 1 story, slag roof, metal lath, metal frames and sash. Architect taking bids, due December 3rd. The following are figuring: Ketcham-McQuade, 1029 Brown street; Pomeroy Const. Co., 1609 Ranstead street; Edw. Fay & Sons, 2 South Mole street; J. Richard Jackson, Perry Building; H. E. Grau Co., 1709 Sansom street; A. L. Fretz & Sons, 1222 Chancellor street; J. Myers & Sons Co., Witherspoon Building; H. E. Batton, Twelfth and Sansom streets, all of Philadelphia.

Commercial Building, 209 North Twenty-second street, Philadelphia. Architect, Ed. Cunningham, 50 North Twenty-third street, Philadelphia. Owner, Ed. M. Harris, 50 North Twenty-third street, Philadelphia. Brick and concrete, 3 stories, 65x190 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, metal sash and frames. Owner will take sub-bids.

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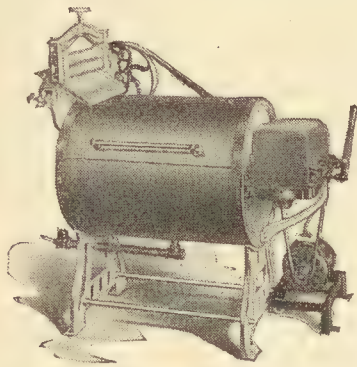
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LIBERTY STOVE CO.

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Ranges and Heaters
114 N. 2nd St., Phila.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, 3950 North Broad street, Philadelphia. Architect, Frank V. Nickels, Harrison Building, Philadelphia. Owner, Harry Scheiry, 3941 North Broad street, Philadelphia. Brick, 2½ stories, 16x56 feet, slag roof, vapor vacuum heating, electric lighting, oak floors. Contract awarded to H. E. Sweger, 4435 North Uber street, Philadelphia.

Store and Apartment (alt.), 1634 Chestnut street, Philadelphia. \$1,600. Architect, private plans. Owner, Hallahan Estate, Real Estate Trust Building, Philadelphia. Brick, electric lighting, consists of new bulk window. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Store (alt.), Orthodox street and Frankford avenue, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Stores Co., 44 West Eighteenth street, New York City. Consists of new front and interior alterations. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Restaurant and Pool Rooms (alt.), 1027-29 Locust street, Philadelphia. Architect, private plans. Owner, Frank L. Polites, 1418 Chestnut street, Philadelphia. Consists of new front and interior alterations. Contract awarded to Alex. Chambley, 243 South Tenth street, Philadelphia.

Apartment House (alt.), Thirty-ninth and

Chestnut streets, Philadelphia. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Hamilton Court Apartment House Co., on premises. Consists of alterations to toilet rooms. Contract awarded to John N. Gill Co., Heed Building, Philadelphia.

Brokers' Offices (alts.), 1418 Walnut street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Geo. A. Huhn & Sons, Land Title Building, Philadelphia. Consists of fitting up first floor for brokers' offices, decorating, marble work, fixtures, electric lighting. Contract awarded to Geo. F. Payne & Co., 401 South Juniper street, Philadelphia.

Stores and Residences (alt. and add.), Southwest Gideons and Wood streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, Wm. A. Daggett, Fortieth and Market streets, Philadelphia. Brick, 3 stories, 10x10 feet, slag roof, steam heating, metal lath, dampproofing. Contract awarded to B. Bornstein, 412 South Fifth street.

Chicken House, Walnut Hill, Pa. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Geo. H. Lorimer, Wynecote, Pa. Frame, 1 story, 13x100 feet, shingle & tile roof, electric lighting. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

PENNSYLVANIA

Construction News

Residence, Elkins Park, Pa. Architects, Street & Stackhouse, Drexel Building, Philadelphia. Owner, S. W. Lowenstein, Melrose

Park, Pa. Hollow tile and plaster, 2½ stories, 30x60 feet, slate roof, hot water heating, electric lighting, oak floors, canvas roof. Archi-

UNITAS TILING

A non metallic substitute for
tile and wood

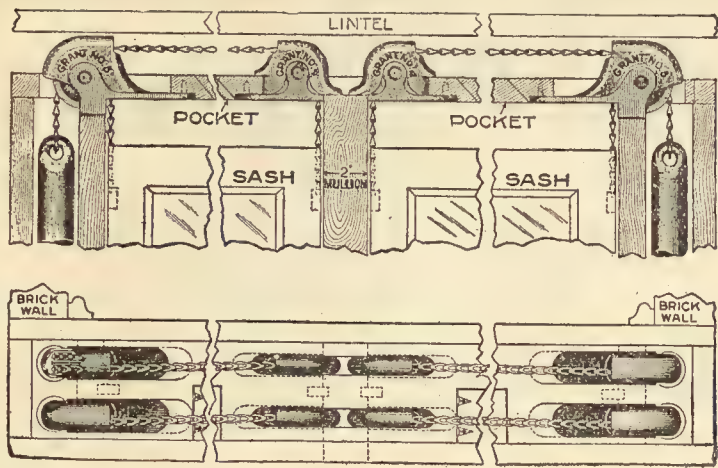
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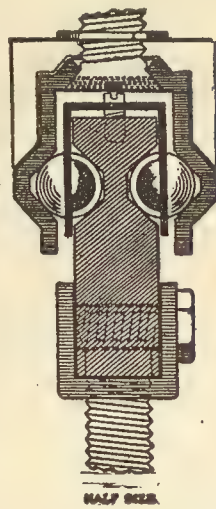
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GRANT PULLEY & HARDWARE CO.

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MURTA, APPLETON & CO., 12th and Sansom Streets

3 W. 29th STREET, NEW YORK CITY

fect taking bids due December 5th. The following are figuring: H. E. Grau Co., 1709 Sansom street; J. Sims Wilson, 1125 Brown street; Specht & Sperry, Heed Building; Jas. B. Flounders, 1329 Arch street; Fesmire & Mitchell, Glenside, Pa.; H. E. Baton, Twelfth and Sansom streets; A. Whitehead, Inc., 1624 Latimer street; Chas. E. Lloyd, Oak Lane, Philadelphia; A. L. Fretz & Sons, 1222 Chancellor street, Philadelphia.

Residence, Ambler, Pa. Architects, Mellor & Meigs, 205 South Juniper street, Philadelphia. Owner, R. Herbert Webster, Ambler, Pa. Frame, 1½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting. Architects have received bids.

School, Myerstown, Pa. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owner, Board of Education. E. L. Bleistein, secretary, Myerstown, Pa. Stone, 2 stories, 140x84 and 20x75 feet, slag roof, slate blackboards, metal lath, waterproofing, safety treads. J. B. Trexler, Reading, Pa., submitted the lowest bid at \$43,200.

Bank Building (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Wither- spoon Building, Philadelphia. Owner, Security Co., Pottstown, Pa. Brick and stone, 2 stories, steam heating, electric lighting, tile floors, metal lath, consists of new fixtures and interior addition. Plans in progress. Bids in about ten days.

Y. M. C. A., Waynesboro, Pa. Architects, Shattuck & Hussey, Chicago, Ill. Owner, Y. M. C. A., care of E. Stoner, Waynesboro, Pa. Brick, steel and concrete, 4 stories, 75x120 feet, tile and composition roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Architect taking bids due December 18th. In addition to those previously reported, Edw. Fay & Sons, 2 South Mole street, Philadelphia, are figuring.

Twin Residence, Easton, Pa. \$4,000. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, C. L. Backman, 30 South Third street, Easton, Pa. Brick, 2½ stories, 32x40 feet, slate roof, vapor heating, gas and electric lighting. Architect taking bids due December 9th. The following are figuring: Samuel Snyder, George Lutz and Frank Klina, all of Easton, Pa.

Residences (12), Easton, Pa. \$25,000. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owners, name

withheld. Sand lime bricks, 3 stories, slate roof, hot air heating, gas and electric lighting, tile work. Architect ready for bids.

Store (alt.), Hamburg, Pa. \$2,000. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, Charles Kline, Allentown, Pa. Consists of new front and interior alterations, electric lighting, tile work. Plans in progress.

Store and Apartments (alt. and add.), Easton, Pa. Architect, J. J. Weitzenfeld, Easton National Bank Building, Easton, Pa. Owner, W. R. Bricker, 201 South Third street, Easton, Pa. Brick and steel, 4 stories, 23x125 feet, slag roof, steam heating, gas and electric lighting, tile work. Architect taking bids due December 5th. The following are figuring: Passoe Engineering and Contracting Co., F. J. Lerch & Co., and A. A. Bechtel, all of Easton, Pa.

Laundry Building (alt. and add.), Easton, Pa. Architect, F. H. Wenzelberger, Easton, Pa. Owner, Children's Home, Easton, Pa. Brick, 2 stories, 30x35 feet, slate roof, steam heating, gas and electric lighting, cement floors, laundry machinery. Architect taking bids due December 5th. The following are figuring: A. A. Bechtel, F. J. Lerch & Co., and Steward Walters, all of Easton, Pa.

Stores and Apartments (alt. and add.) (5), Allentown, Pa. Architects, Jacoby & Weishamplé, Commonwealth Building, Allentown. Owner, George F. Metzger, Fourth and New streets, Allentown, Pa. Brick, 4½ stories, 36x53 and 40x60 feet, slag roof, team heating, gas and electric lighting, tile work, iron stairs, dumb waiters. Plans in progress.

Residence and Garage, Merion, Pa. \$25,000. Architects, De Armond, Ashmead & Bickley, 608 Chestnut street, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 90x30 feet. Plans in progress.

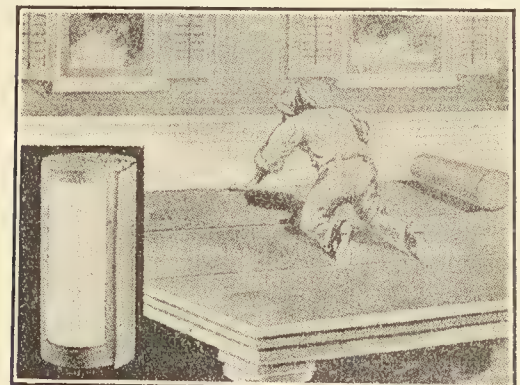
Theatre and Hall, West Chester, Pa. \$25,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owners, table Building, Wilmington, Del. Owner, name withheld. Hollow tile, brick and steel, 2 stories, 50x80 feet, slag roof, steam heating, electric lighting, hardwood floors, metal lath, ornamental iron stairs.

Bank Building, Waynesboro, Pa. \$25,000. Architect, A. C. Leach, 323 North Charles street, Baltimore, Md. Owner, Citizens National Bank, Waynesboro, Pa. Brick, stone and terra cotta, 1 story, 60x40 feet, slag roof,

THE FAIRBANKS CO.

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is used on the Finest Buildings, also where severe strain and wear is essential for roof or deck, and in preference to tin, tar or copper, and is more durable than any roofing prepared or other kind. Samples mailed.

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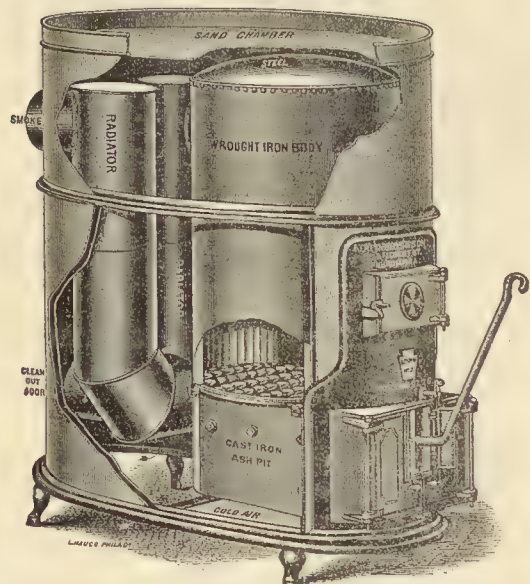
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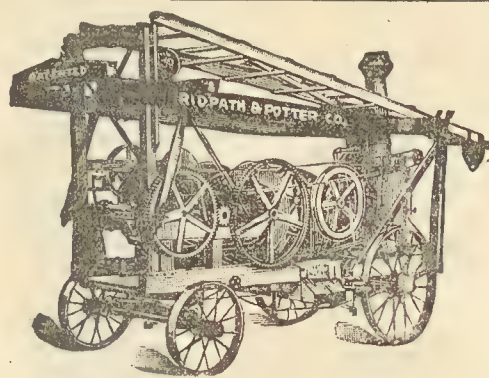


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Philadelphia, Penna.

steam heating, electric lighting, tile work Plans in progress.

Farm House (alt. and add.), Lyonville, Pa. Architects, Zantinger, Boire & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, J. Hunter Lucas, Kimberton, Phoenixville, Pa. Stone, 2 stories, 30x26 feet, slate roof, steam heating. Architects taking bids due December 7th. The following are figuring: Geo. Fisher and Wm. Moore, both of Downingtown, Pa.; W. H. Jones, Joseph M. Burns, C. Shaw, all of West Chester, Pa., and C. Woodland, Chester Springs, Pa.

Store and Office Building, Shenandoah, Pa. Architect, Frank X. Reilly, Shenandoah, Pa. Owner, Harry N. Bradigan, Shenandoah, Pa. Brick, 3 stories, 40x75 feet, slag roof (heating and lighting, reserved). Architect taking bids due December 2nd. Geo. F. Pawling Company, Broad and Vine streets, Philadelphia, is figuring.

Residence and Garage (alt. and add.), Rose Valley, Pa. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owner, Morris B. Saul, Moylan, Pa. Brick and plaster, 2½ stories, tile roof, composition floors (heating and lighting, reserved). Architects taking bids due December 5th. The following are figuring: Stacy Reeves & Sons, 2011

Market street; John Duncan, 920 Walnut street; E. E. Hollenback, Fifteenth and Race streets, all of Philadelphia; Herbert Walton, Moylan, Pa.; E. E. Flounders, Media, Pa.; W. H. Ford, Media, Pa.

Parish House and Sunday School, York, Pa. \$25,000. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, Trinity Reformed Church, York, Pa. Brick, stone trimmings, slate roof, steam heating, electric lighting. Plans in progress.

Round House (alt.), Bridgeport, Pa. Architect, William Hunter, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets, Philadelphia. Frame, 1 story, 77x125 feet, asbestos roof. Owners taking bids, due December 5th. The following are figuring: J. E. & A. L. Pennock, Land Title Building; Charles Gilpin, Harrison Building; W. W. Lindsay, Harrison Building; Brown-King Const. Co., Harrison Building; H. E. Batton, Twelfth and Sansom streets; A. L. Carhart, Hale Building; F. A. Havens Co., 845 North Nineteenth street; Armstrong & Latta, Land Title Building; Charles McCaul Company, 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; F. L. Hoover & Sons, 1023 Cherry street, all of Philadelphia.

PENNSYLVANIA

Contracts Awarded

Residence and Garage, Haverford, Pa. \$6,000. Architects, Martin & Kirkpatrick, 1001 Chestnut street, Philadelphia. Owner, Walton Clark, Jr., Land Title Building, Philadelphia. Hollow tile and plaster, 2½ stories, 32x50 feet, shingle roof, electric lighting, oak floors (heating reserved). Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

gene Tourison, 1001 Chestnut street, Philadelphia.

School, Morton, Pa. Architect, Lewis F. J. Moore, Media, Pa. Owner, Board of Education, Morton, Pa. Brick and plaster, 1 story, 70x70 feet, shingle roof, steam heating, electric lighting. Contract awarded to Lansdowne Construction Co., Lansdowne, Pa.

NEW JERSEY

Construction News

Post Office, Morristown, N. J. Architect, Oscar E. Wenderoth, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and stone, 2 stories, 91x82 feet, steam heating, tile roof, electric lighting, metal lath, waterproofing and dampproofing, safety treads. Owners taking bids due December 5th. In addition to those previously reported Chas.

Gilpin, Harrison Building, Philadelphia, is figuring.

Power House, Camden, N. J. Architects, Ballinger & Porrot, 1211 Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick and concrete, 1 story, 100x200 feet, slate roof. Plans completed. Bids in a few days.

Concrete Wall and Wire Fence, Gloucester

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THE first glance will reveal the fact that this building is built in accordance with the newest and best ideas of commercial construction. The same intelligence which planned the ample windows and the well-balanced architectural lines provided that the roof should be laid in strict accordance with The Barrett Specification.

Why did a first-class architect adopt a manufacturer's suggestion and incorporate, verbatim, in the building specifications the ready-made formula of the Barrett Manufacturing Company?

The Barrett Manufacturing Company does not lay roofs—it only supplies the coal tar pitch and tarred felt with which such roofs are made. Their interest is in having their materials rightly used, for the prestige of this type of roofing depends on good, sound workmanship fully as much as on correctness of materials.

The Barrett people can control the quality of the material, but they can guarantee the quality of the roof only by inducing the architect or owner to have the materials used according to The Barrett Specification. This specification provides for a definite number of alternating plies of pitch and felt with a top covering of slag, gravel or tile. The process of laying the materials is described, step by step, in a practical way which any contractor can easily follow. When complete, the roof can be cut at random, and a glance at the cross section thus exposed will demonstrate whether or not the contractor has followed the specification requiring five plies of felt with pitch between at every point.

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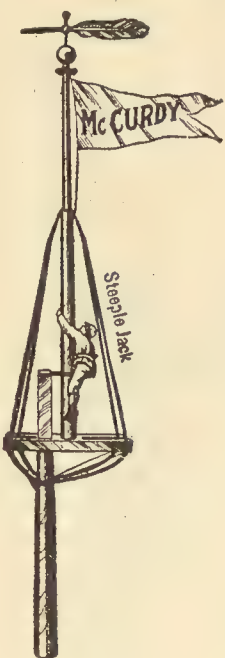
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New Building of the Adams Express Company, N. Y. City
Architect, Francis H. Kimball
New York City
Roofers, N. Y. Roofing Co.
New York City



FLAG POLES and Fittings

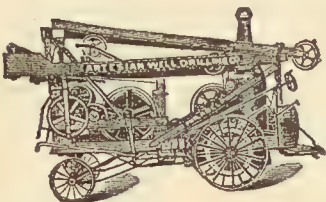
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Save Fuel.

Keep out Dust.

Afford Protection against Drafts.

Eliminates window rattle and is practically everlasting.

SAMUEL B. MAC DOWELL & SON

1927 Montgomery Avenue

Philadelphia, Pa.

City, N. J. Architect, private plans. Owner, United States Government, Immigration Station, Gloucester City, N. J. Concrete wall and wire fence, 280 feet long. Owners have received bids.

Post Office, Morristown, N. J. Architect, O. E. Wenderoth, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and stone, 2 stories, 91x82 feet, tile roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Owners taking bids due December 5th. In addition to those previously reported, D. T. McCarthy, 411 Walnut street; H. H. Wehmeyer, 1004 West Lehigh avenue; F. W. Van Loon, Denckla Building; Ed. Atkins, 249 South Twenty-fourth street; Herman Voigt, 1251 North Twenty-eighth street; R. C. Ballinger, 218 North Thirteenth street; Cramp & Co., Denckla Building, all of Philadelphia, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Residence and Stores (alt. and add.), Atlantic City, N. J. Architects, Smith & Henderer, Atlantic City, N. J. Owner, John Burt, Atlantic City, N. J. Brick and frame, 4 stories, 20x35 feet, slag and asbestos shingle roof (heating reserved), electric lighting. Architects have received bids.

Bungalows (2), Camden, N. J. Architect, private plans. Owners, Cramer Realty Company, Thirty-fourth and Federal streets, Camden, N. J. Frame, 1½ stories, 24x38 feet each, shingle roof, gas and electric lighting, tile work. Owner will take sub-bids.

Residences (5), Camden, N. J. Architect, private plans. Owner, Conrad Lambert, 1255 Morton street, Camden, N. J. Brick, 2 stories, 14x40 feet each, slag roof, hot air heating, gas lighting. Owner will take sub-bids.

Residences (2), Camden, N. J. Architect, private plans. Owner, Peter Kovelenco, 1228 Chase street, Camden, N. J. Brick, 2 stories, 15x44 feet each, slag roof, hot air heating, gas lighting. Owner will take sub-bids.

Bakery (add.) and New Stable, Atlantic City, N. J. Architect, S. Hudson Vaughn, Bartlett Building, Atlantic City, N. J. Owners, William Freihofer Baking Co., care of William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, 2 stories, 80x112 feet and 73x112 feet, slag roof (heating and lighting reserved). Architect taking bids, due December 4th. In addition to those previously reported, Ketcham-McQuade, 1029 Brown street, Philadelphia, is figuring.

Greenhouse (add.), New Brunswick, N. J. \$4,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Agricultural College, New Brunswick, N. J. Brick, 1 story, 21x45 feet, slag roof, steam heating, electric lighting, concrete floors. Plans in progress.

Residences (2), Trenton, N. J. \$3,000. Architect, private plans. Owner, Samuel Hilton, Forst Richey Building, Trenton, N. J. Cement blocks, 2 stories, 15x25 feet each, slate and tin roof, hot air heating, gas lighting. Owner taking sub-bids.

NEW JERSEY

Contracts Awarded

Apartment House, Atlantic City, N. J. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Thomas Kilcourse, 17 North Sovereign avenue, Atlantic City. Brick, 3 stories, 97x32 feet, slag roof, steam heating, gas and electric lighting, metal lath. Contract awarded to Charles H. Coff, Pleasantville, N. J.

Hotel (alt. and add.), Atlantic City, N. J. \$10,000. Architect, W. S. Hewitt, Bartlett Building, Atlantic City, N. J. Owner, Michael O'Grady, 14 South Lackeade Place, Atlantic City. Brick and stucco, 4 stories, 30x60 feet, slag and asbestos shingle roof, gas lighting. Contract awarded to Samuel H. Headley, Bartlett Building, Atlantic City, N. J.

Bungalow, Ventnor, N. J. \$4,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, Jules V. Cohen, 4705 Atlantic avenue, Atlantic City. Brick and stucco, 1½ stories, 36x40 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to Edward A. Crosta, 10 South Tennessee avenue, Atlantic City, N. J.

Residence (alt. and add.), Atlantic City, N. J. \$2,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City, N. J. Owner, Mrs. Catherine Crowley, 30 North Connecticut avenue, Atlantic City, N. J. Brick and frame, 3 stories, slate roof, steam heating, gas and electric lighting, tile work. Contract awarded to Wm. Taylor, Atlantic City, N. J.

Factory (add), Trenton, N. J. \$10,000. Architect, private plans. Owner, Bayard Dunkle, Trenton, N. J. Brick and concrete, 2 stories, 40x100 feet and 30x100 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded for carpenter work to Edward A. Lee, 511 Tyler street, Trenton, N. J.; mason work, to Joseph Hopewell, Villa Park, Trenton, N. J.

Picture Theatre, Paulsboro, N. J. \$6,000. Architect, Charles J. Brooke, 518 Federal street, Camden, N. J. Owner, J. L. Bailey, Paulsboro, N. J. Brick and cement blocks, 1 story, 34x110 feet, asbestos shingle roof, metal lath, cement floors (heating and electric work

reserved) Contract awarded to Robert J. Gibbes, Paulsboro, N. J.

Storage Sheds and Saw Mill, 511 North Delaware avenue, Camden, N. J. Architect, private plans. Owners, Munger & Bennett, on premises. Frame and galvanized iron, 1 story, 67x205 feet, 16x133 feet and 50x60 feet, slag roof, electric lighting. Contract awarded to Frank Turner, 828 Broadway, Camden, N. J.

Shipping Building, Camden, N. J. Architect, private plans. Owner, R. M. Hollings-

head Co., 112 North Ninth street, Camden, N. J. Brick, 1 story, 76x38 feet, slag roof, steam heating, electric lighting. Contract awarded to T. H. Miller, Thirty-eighth and Westfield avenue, Camden.

Residences (2), Camden, N. J. Architect, private plans. Owners, Starr & Ribeiro, Camden, N. J. Brick and frame, 2½ stories, 16x38 feet each, slate roof, hot water heating, gas and electric lighting, tile work. Contract awarded to John McColgan, Merchantville, N. J.

MARYLAND Construction News

Residences (150), Homestead, Madison and Pork streets, Baltimore, Md. \$300,000. Architect, private plans. Owner, E. J. Gallagher & Son, Munsey Building, Baltimore. Brick, 2 stories, 14x46 feet each, slag roofs, steam heating, gas and electric lighting. Plans in progress.

Chapel, Hyattsville, Md. \$8,000. Architect, G. E. MacNeal, Hyattsville, Md. Owner, First Presbyterian Church, Hyattsville, Md. Granite, 1 story, 32x42 feet, slate roof, steam heating, electric lighting. Owner taking bids. Burgess & Parson, Washington, D. C., are figuring.

Water Works, Hancock, Md. \$15,000. Engineer, A. M. Quick, Munsey Building, Baltimore, Md. Owner, Borough of Hancock, Hancock, Md. Brick, 1 story. Plans in progress.

Residence, Hill Top Park, Md. \$5,000. Architect not yet selected. Owner, C. B. Bradfield, 1109 Continental Building, Baltimore. Frame, 2½ stories, slate roof, steam heating, electric lighting. Owner will soon select architect.

Warehouse, Hagerstown, Md. \$10,000. Architect, private plans. Owner, B. Berkson, Hagerstown, Md. Brick, 4 stories, 30x100 feet, slag roof, electric lighting, elevator. Owner is subletting all contracts.

Factory, Fifth and Clinton avenues, Canton, Baltimore, Md. \$16,000. Architect, private plans. Owner, Hubbard Fertilizer Co., Keyser Building, Baltimore. Frame and galvanized iron, 1 story, 160x76 feet, wing 124x100 feet, composition roof, electric lighting, concrete floors. W. H. Chapman, superintendent, care of owner, is subletting all contracts.

Residence, Guilford, Md. \$20,000. Architect, E. L. Palmer, Roland Park, Md. Owner, C. B. Dallam, 31 South street, Baltimore, Md. Brick, 2½ stories, 24x36 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Guilford, Md. \$14,000. Architect, E. L. Palmer, Roland Park, Md. Owner, F. J. Hance, 2330 Eutaw Place, Baltimore, Md. Stone, 2½ stories, 28x42 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Greenway near University Parkway, Baltimore, Md. \$20,000. Architects, Archer & Allen, Charles and Lexington streets, Baltimore, Md. Owner, Miss J. B. Rogers, care of architects. Brick, 2½ stories, 27x70 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work, waterproofing and dampproofing. Architects have received bids.

Residences (29), Thirty-ninth and Greenmount avenue, Baltimore, Md. \$90,000. Architect, E. L. Palmer, Roland Park, Md. Owner, H. W. Cooke, Law Building, Baltimore, Md. Brick, 2 stories, 24x42 feet each, slag roofs, steam heating, gas and electric lighting. Owner is subletting all contracts.

Apartment House, 1415 Druid Hill avenue, Baltimore, Md. \$10,000. Architect, F. E.

Beall, 306 Earatoga street, Baltimore. Owner, Wm. E. McCord, 23 East Saratoga street, Baltimore. Brick, 3 stories, 35x77 feet, slag roof, steam heating, electric lighting, tile work. Owner is subletting all contracts.

Garage, 2314 Edmondson avenue, Baltimore, Md. \$6,000. Architect, J. C. Spedden, 1640 Hanover street, Baltimore. Owner, A. K. Munderloh, 2314 Edmondson avenue, Baltimore. Brick, 2 stories, 48x100 feet, slag roof, electric lighting, concrete floors. Owner is subletting all contracts.

Bank and Apartment House, Cambridge, Md. \$25,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Eastern Shore Trust Co., Cambridge, Md. Brick, 3 stories, 34x64 feet, slag roof, steam heating, electric lighting. Plans in progress.

Apartment House, 21 East Saratoga street, Baltimore. \$20,000. Architect, F. E. Beall, 306 St. Paul street, Baltimore, Md. Owner, William C. McCard, 21 East Saratoga street, Baltimore. Brick, 5 stories, slag roof, steam heating, electric lighting, tile work. Plans in progress.

Warehouse, Paca and Mulberry streets, Baltimore, Md. Architect and owner, Rudolph J. Motz, on premises. Brick, 4 stories, slag roof, steam heating, electric lighting, elevator. Plans in progress.

Store and Residence, 536-38 West Franklin street, Baltimore. Architect, private plans. Owner, Cassinio Carraggio, on premises. Brick, 3 stories, Carey roof, steam heating, electric lighting. Owner has received bids.

Theatre, Presstman street and Kirby lane, Baltimore, Md. \$10,000. Architect, private plans. Owner, Gottfried Helmig, on premises. Brick, 1 story, slag roof, steam heating, electric lighting, metal lath. Owner will sublet all contracts.

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Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

MARYLAND

Contracts Awarded

Theatre, 1 and 3 South High street, Baltimore, Md. \$15,000. Architect, John Freund, Hoffman Building, Baltimore. Owner, I. Burman, Law Building, Baltimore, Md. Brick, 3 stories, 101x107 feet, slag roof, steam heating, electric lighting, waterproofing and dampproofing. Contract awarded to Adam Kratz, 343 South Smallwood street, Baltimore, Md.

Residence, Hillen and Forest streets, Baltimore, Md. \$7,500. Architect, private plans. Owner, Wm. Phillips, on premises. cement blocks, 2 stories, 30x32 feet, asbestos shingle roof, steam heating, electric lighting. Contract awarded to John W. Nelson, Raspeburg, Md.

Bungalow, Ten Hills, Md. \$6,000. Architect, private plans. Owner, Harry L. Conway, 126 S Hanover street, Baltimore. Frame, 2 stories, slate roof, steam heating, electric lighting. Contract awarded to Luther Gerwig & Co., Catonsville, Md.

Church, Walbrook avenue near Payson street, Baltimore, Md. Architect, private plans. Owner, Concordia Chapel, Walbrook,

Baltimore, Md. Frame, 1 story, 14x51 feet, slate roof, steam heating, electric lighting. Contract awarded to E. Eyring & Sons, 800 South Third street, Baltimore, Md.

Garage, Edmondson avenue and Bentalow street, Baltimore, Md. \$14,000. Architect, private plans. Owners, Edmondston Realty Company, on premises. Brick, 1 story, 48x100 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to George Houck, Edmondson avenue, near Kate avenue, Baltimore, Md.

Factory, Frederick and Wilkens avenues, Baltimore, Md. \$10,000. Architect, private plans. Owners, William Wilkens & Co., on premises. Brick, 3 stories, slag roof, electric lighting. Contract awarded to Morrow Bros., Fidelity Building, Baltimore, Md.

Factory, 934-36 West Baltimore street, Baltimore, Md. \$60,000. Architect, private plans. Owner, H. L. Clemens, on premises. Brick, 2 stories, 30x45 feet, slag roof, steam heating, electric lighting. Contract awarded to John S. Moke, 1825 West Baltimore street, Baltimore, Md.

Yoskin & Shefkis (C), 7717 Brewster avenue. Cost, \$12,000. Six dwellings and 2 stores, brick, 2 stories 14x30 feet, Sixty-third and Dickens avenue. Cost, \$3,500. Store and dwelling.

H. N. Deisel (O), 5039 Springfield avenue. Cost, \$8,000. Store, brick, 3 stories, 76x76 feet, 5221 Market street.

J. F. Logen (O), 2653 Kensington avenue. J. Carberry (C), 2610 Amber street. Cost, \$3,450. Dwelling, stone, 3 stories, 16x60 feet, 2655 Kensington avenue.

H. H. Bonnell (O), Land Title Building. Pringle Borthwick (C), 8018 Germantown avenue. Cost, \$5,000. Garage, stone, 2 stories, 41x29 feet, Mermaid and Hillside avenues.

J. A. Hamilton (O), 2025 South Bancroft street. J. E. Ehman (C), 1026 Mountain street. Cost, \$7,000. Manufacturing building, brick, 2 stories, 45x102 feet, Twenty-fifth and Moore streets.

Wm. Claussen (O), 2024 East Cheltenham avenue. Cost, \$9,000. Two dwellings, stone, 3 stories, 16x48 feet, Sixty-fifth avenue and Park avenue. Cost, \$7,600. Two dwellings.

V. C. B. Turner (O), Palethorp and Olney streets. Cost, \$2,000. Dwelling, brick, 2 stories, 16x41 feet, Palethorp and Olney streets.

Jos. S. Silver (O), 1912 Orleans street. Cost, \$8,800. Four dwellings, brick, 2 stories, 14x30 feet, Russell and Jasper streets. Cost, \$3,500. One store and dwelling. Cost, \$12,000. Six dwellings.

Geo. W. Shisler (O), 2300 South Eleventh street. Cost, \$10,500. Seven dwellings, brick, 2 stories, 14x30 feet, 2600 South Seventh street. Cost, \$25,500. Seventeen dwellings. Cost, \$2,000. One dwelling.

Wm. Friehofer (O), Twentieth and Indiana avenue. Ketcham-McQuade (C), 1029 Brown street. Cost, \$18,000. Garage, brick, 2 stories, 69x115 feet, Fifty-second and Filbert streets.

A. Forepaugh (O), 1671 Dyre street. Cost, \$6,800. Four dwellings, brick, 2 stories 14x30 feet, 5108 to 5014 Hawthorne street.

J. Tottingham (O), 3367 Frankford avenue. Cost, \$10,000. Four dwellings, brick, 2 stories, 16x30 feet, 4701 to 4707 Northwood street.

J. C. Burkholder (O), 5918 North Ninth street. Cost, \$4,400. Two dwellings, brick, 2 stories, 16x46 feet, Park avenue and Campbell street.

Cornelius Saviler (O), 6153 Lawnton street. Keller Bros. (C), 480 Harmon road. Cost, \$2,400. Dwelling, brick, 2 stories, 15x42 feet, Hermitage street.

Alterations and Additions

Westmoreland Coal Co. (O), 224 South Third street. Cost, \$400. Coal pocket, Greenwich Point, Pa.

Chas. Nachold (O), Tenth and Montgomery avenue. Geo. Beigenfuss (C), 3809 North Seventh street. Cost, \$2,000. Saloon, Seventh and Butler streets.

W. E. Wood Estate (O), 1836 Greene street. Cost, \$1,000. Garage, 1933 Brandywine street.

J. A. Hamilton (O), 2025 South Bancroft street. J. E. Ehman (C), 1026 Mountain street. Cost, \$3,500. Stable and garage, Twenty-fifth and Moore streets.

A. Nittinger (O), 826 North Fourth street. F. I. Wintz (C), 1618 North Twenty-seventh street. Cost, \$900. Storage, 844 North Fourth street.

Chas. Coven (O), Ardmore, Pa. L. Snyder & Sons (C), 260 North Marvine street. Cost, \$400. Commission house, 34 South Water street.

Mrs. H. S. P. Nichols (O), 346 Pelham road. J. E. Walt (C), 204 East Willow Grove avenue. Cost, \$1,235. Garage, 346 Pelham road.

Miscellaneous Construction News

Bank, Detroit, Mich. Architect, Albert Kahn, Detroit, Mich. Owner, Detroit Trust Co., Detroit, Mich. Brick, stone and steel, 3 stories, 40x138 feet, slag roof steam heating, electric lighting, metal lath, waterproofing. Architect has received bids.

Chemical Laboratory, Burnet Woods Park, Ohio. Architects, Tietig & Lee, Cincinnati, Ohio. Owner, University of Cincinnati, Cincinnati, Ohio. Brick, steel and concrete, 3 stories and basement, 93x208 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, safety treads, metal frames and sash. Architects have received bids.

Storehouse, Navy Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, Washington, D. C. Brick, steel and concrete, 5 stories, 150x250 feet, slag roof, steam heating, electric lighting, waterproofing, dampproofing, electric elevators, safety treads, metal sash and frames, rolling steel doors. Owners taking bids due December 12th. In addition to those previously reported, Chas. McCaul Co., 1713 Sansom street; Armstrong & Latta, Land Title Building; J. E. & A. L. Pennock, Land Title Building; Jos. Bird & Co., 213 North Eleventh street; Thos. Reilly, 1616 Thompson street; Irwin & Leighton, 126 North Twelfth street; Wm. Steele & Sons Co., Sixteenth and Arch streets;

Berry-Goodwin Co., Drexel Building; Ed. F. Fonder, Land Title Building; W. S. Ottinger, Morris Building, all of Philadelphia, are figuring.

Residences (2), Wilmington, Del. \$4,600. Architect, private plans. Owner, Lynch Bros. Co., Wilmington, Del. Brick, 2 stories, 16x42 feet each, slag roof, hot air heating, gas lighting. Contract awarded to Harry S. Lynch, 715 Tatnall street, Wilmington, Del.

Factory (alts.), Wilmington, Del. \$2,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner, National Machine Co., Fifth and Orange streets, Wilmington, Del. Consists of interior alterations, elevator, electric motor, etc. Plans in progress.

Club House, Wilmington, Del. \$40,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Knights of Columbus, Wilmington, Del. Brick, stone and terra cotta, 4 stories, 45x100 feet, tile or inlaid slate roof, indirect steam heating, gas and electric lighting, tile work, hardwood floors, metal lath, ornamental iron balcony. Plans in progress.

Residence, Wilmington, Del. \$5,000. Architect, private plans. Owner, Clifford Reese, Wilmington, Del. Brick, 2½ stories, 25x32 feet, slate roof, hot water heating, gas and electric lighting. Owner is sub-letting all contracts.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Louis Lasensky (O), 941 Suffolk street. Louis Spheen (C), Seventy-eighth and Bart-ram avenue. Cost, \$2,200. Dwelling and store, brick, 2 stories, 16x50 feet, Eighty-fourth and Albertson streets.

J. J. Hurley (O), 503 East Monastery avenue. Cost, \$3,800. Dwellings (2), brick, 2 stories, 14x36 feet, Jamestown and Cresson streets.

Louis Garfinkel (O), 781 Brewster avenue.

N. Colpariso (O), 643 South Sixtieth street.
A. M. Mahjoulia (C), 126 South Sixtieth street. Cost, \$900. Store and dwelling, 619 South Sixtieth street.

F. Schmidt (O), 4835 North Mervine street.
D. H. Sharp Co. (C), Heed Building. Cost, \$5,450. Garage, 8431 North Marvine street.

I. Krasner (O), Fifth and Dickinson streets.
A. Krauss (C), 840 Jackson street. Cost, \$1,050. Store and dwelling, Fifth and Dickinson streets.

Jos. Schick (O), 2510 Lee street. E. Rieben (C), 2632 West Cumberland street. Cost, \$600. Dwelling, 2510 Lee street.

Jane Boissnot (O), 1404 Point Breeze avenue. J. Lanzillota (C), 1311 South Warnock street.

P. Quick (O), 2318 North Broad street. D. Henwood (C), 1509 Wood street. Cost, \$1,925. Dwelling, 2318 North Broad street.

Kensington Hygeia Ice Co. (O), Trenton avenue and Huntingdon street. Mitchell & Tappen Co. (C), New York City. Cost, \$2,000. Manufacturing building, Trenton avenue and Huntingdon street.

Harry Brocklehurst (O), 512 West Norris street. Cost, \$1,250. Dwelling, Cornwell street and Hunting Park avenue.

J. A. Seider (O), Wayne, Pa. Moore & Graham (C), 6224 Wissahickon avenue. Cost, \$500. Garage, Cliveden and Wayne avenue.

Hallahan Estate (O), Real Estate Trust Building. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$1,600. Store and apartments, 1634 Chestnut street.

Masterbaum Bros. & Fleisher (O), North American Building. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$600. Store and apartments, 261 South Fifty-second street.

United Cigar Stores Co. (O), New York City. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$1,000. Store, Orthodox and Frankford avenue.

W. Shriner (O), 1616 Howard street. Reimer & Byers (C), 4824 Hawthorne street. Cost, \$300. Porch, 1616 Howard street.

M. Baker (O), Franklin Building. H. Wachter (C), 630 Wolf street. Cost, \$875. Hall, 715 Diskinson street.

A. H. Knatz (O), 649 South Fifty-first street. J. Cunningham Co. (C), 2016 Alter street. Cost, \$1,500. Office, Twentieth and St. Albans streets.

Manayunk Realty Co. (O), 4443 Main street. Greenwood Adv. Co. (C), 1510 Sansom street. Cost, \$550. Theatre, 4443 Main street.

F. L. Polites (O), 1418 Filbert street. Alex. Chambley (C), 243 South Tenth street. Cost, \$1,600. Restaurant, 1027 Locust street.

C. McAullife (O), Eighteenth and Ritner streets. H. F. Murphy Co. (C), 1619 Sansom street. Cost, \$600. Saloon and dwelling, Sixteenth and Ritner streets.

W. E. Hepamer (O), Twenty-fifth and Wharton streets. Koelle-Speth & Co. (C), Twenty-sixth and Oxford streets. Cost, \$2,500. Office, Twenty-fifth and Wharton streets.

Jos. Sturtz (O), 3503 Kensington avenue. T. Duff (C), 3648 Frankford avenue. Cost, \$1,200. Garage, Clarence and Stouton streets.

Thos. Shoemaker (O), 120 Tulpehocken street. E. P. Bates (C), 1113 Parrish street. Cost, \$350. Dwelling, 1041 Reno street.

A. Nield (O), 5849 North Twelfth street. Cost, \$500. Store, Broad and Olney avenue.

E. Neff (O), 4311 Lancaster avenue. C. Shuhum & Sons (C), 871 Belmont avenue. Cost, \$800. Store and dwelling, 4311 Lancaster avenue.

Bell Telephone Co. (O), Thirteenth and Arch streets. F. W. Van Loon (C), Denckla Building. Cost, \$700. Exchange, Fifty-fourth and Woodland avenue. Cost, \$1,800. Exchange, Lancaster avenue and Media streets.

Peter Schemm & Sons (O), Twenty-fifth and Poplar streets. J. Kelley (C), Bulletin Building. Cost, \$500. Brewery, Twenty-fifth and Poplar streets.

B. J. McGuigan (O), 2801 Kensington avenue. H. B. Shitzline (C), 2315 South Thirteenth street. Cost, \$1,000. Store and dwelling, Water and Snyder avenue.

Kennedy & Pamto (O), Broad and Butler streets. Barndt & Sons (C), 1037 Tioga street. Cost, \$950. Garage, 2329 North Smedley street.

G. Cohen (O), 429 Poplar street. Louis Berger (C), 1026 North Third street. Cost, \$1,100. Store and dwelling, 429 Poplar street.

RECENT TRADE LITERATURE.

"Metal Casements" is an interesting brochure written by Sydney E. Castle, an architect of London, relating the history and development of metal casements. The compelling charm of his literary style and the beauty of the illustrations cannot fail to arouse interest in the subject of windows. Those who already have metal casements will want a copy of the book, because of the richer meaning this type of window will have for them after they have been introduced to its distinguished ancestry and they will also appreciate the invaluable information on the way to clean leaded glass and the proper curtain treatment which it contains. The book may be had, free of charge, from the International Casement Company, of Jamestown, N. Y.

* * *

The General Fireproofing Company, of Youngstown, O., is now publishing a magazine which aims to keep the public informed as to all progress made in methods of fireproofing and waterproofing. The architect and builder will both be interested in their announcement that henceforth, all metal lath made at this plant will be protected by a coat of "baked-on" paint. This will prevent the formation of the initial coat of rust due to exposure before being applied and will effectively protect the lath from atmospheric corrosion. The line of water-proofing compounds furnished by this company has been quite recently acquired from the H. C. Horn Company, of Long Island, after they had made a most careful investigation of all materials and methods on the market. Repeated tests have proved that the waterproofing paste will not oxidize when exposed to the air nor be destroyed by the action of chemicals usually found in ground water. Anyone planning to use fireproof materials in the construction of a home, will do well to investigate their proposition.

* * *

If anybody wants to get a reliable and concise idea of the modern range of brick shapes, sizes and colors for facade or decorative purposes a perusal of the catalogue just coming from the press and soon to be issued by the Sayre & Fisher Co., 261 Broadway, New York City, will give all the information a prospective builder, owner or architect may desire. Incidentally, figuring sizes of special types of moulded enamel brick shapes are given. One rather unique feature about this catalogue is the specific instances of where various types of brick manufactured by this concern have been used.

WATCH FOR TIGHT CONSTRUCTIONS.

Successful heating contractors know that heating a building is a matter of making, distributing and retaining warmth. Good results depend just as much on the way the structure is built as on the heating outfit. Both economy and comfort depend on how much the warmth artificially created is kept inside, and how long it remains. Therefore, in making a lay-out and estimate to warm any building, the most proficient heating men investigate carefully the structural features which are liable to waste heat—and have the faults corrected wherever possible. Printed statements in contract forms of particular contractors stipulate that the owners shall attend to these features.

Not a few heating men, however, still neglect to give enough consideration to outer walls, which, if poorly and cheaply constructed, waste the heat. The walls quickly radiate heat rather than retain it; they are said to "cool the air inside." So, it means quite a difference whether or not outer masonry walls have proper air spaces, or, if built of wood, whether or not the outer walls are well sheathed and protected by non-heat-conducting materials. If the walls lack these heat-retaining features, the building can only be warmed by an undue consumption of fuel. Experienced heating men know that so safe adjustment of radiation can be made in any building without a definite knowledge of the construction and area of outer walls and windows.

Then, too, many old buildings requiring new heating plants are found to have doors and window joints warped or shrunk, making large inlets for the entrance of cold air. Outside entrance doors without vestibules or without proper filling and joining often admit much cold air, which counteracts the good effects of liberally planned heating apparatus.

Where lack of heating success is not due to poor chimney flues, in most cases it will be found that the job has not made good because the heating contractor has overlooked full attention to these important points; whereas, proper correction of cold inlets by the owner would have insured an easy fulfillment of that final pay-winning object—"70 degrees in lero weather," with not a little fuel saved.—"Ideal Heating Journal."

PAINTING THE EIFFEL TOWER.

For the fifth time since its erection the Eiffel Tower is receiving a new dress of orange yellow. Sixty thousand pounds of paint is needed to adorn the great tower and fifty painters will be employed daily for three months. The new robe costs \$20,000.

"Noah filled the ark," says an exchange, "without advertising."

Wrong again, esteemed contemp. The ark was advertised in the Daily Deluge, Scripture tells us, for 40 days and 40 nights.

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The Philadelphia Real Estate Record and BUILDER'S GUIDE

PUBLISHED WEEKLY

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Editorial Comment

The following inquiry, dealing with a somewhat interesting roofing problem, was sent by one of its subscribers to "Sheet Metal:"

"Would ask for information as to the best roofing for a bakery that was covered with tin at first and has slag at the present time. The heat appears to melt the pitch and causes leaks. Do you think that by taking the slag off and covering with a roofing cement, and then spreading slag again, that the job would be all right?"

"Sheet Metal," being wise in its day and generation, made no attempt at a direct reply to this deftly-framed little "poser." As an organ of the sheet metal interests, the mission of "Sheet Metal" is to boost metallic roofing. Here was a case in which tin had been discarded for slag and slag, in turn, owing to the great heat to which it was subjected, had also failed to meet the test. There was, obviously, slender ground upon which to base a boost for tin—that roofing material having scored the initiatory failure. "Sheet Metal" meets the issue thus raised with a tact worthy of Oriental diplomacy, referring the puzzling query to a jury of the trade.

The replies elicited are interesting—from more than one angle.

* * *

The N. & G. Taylor Company have no doubt at all that tin would again be the ideal roofing, but—the tin "must be of the very best quality, the under side given two coats of paint and the tin laid over waterproof sheathing paper 'well-lapped.'"

The C. D. Cooley Company, architects, recommend a slag or gravel roof laid according to Barrett specifications, this class of roof, in their experience, doing away with roofing troubles of the kind noted. The Cooley Company adds a word as to the utter inefficiency of sheet metal in bakery work due to the deteriorating effect of the gases.

"H. A. D.," who signs himself a "Roofing Contractor," suggests either the best quality of tin over two thicknesses of waterproof Neponset Red Rope Roofing Fabric or else that the slag be removed and the roof covered with a built-up asphalt and felt roof put on over one or two thicknesses of asbestos felt.

The Atlantic Refining Company suggests Arco Sealit applied over the tin. Berger Bros. Co. advise asphalt with a cap sheet of asphalt felt.

The moral of the discussion is that no two roofing problems can be treated exactly alike, and that any roof, to be properly effective, must be laid first to meet the problem in hand and next of such material as will best adapt itself to that problem. We enjoyed the symposium in this case rather keenly because it has served to verify a number of opinions on the roofing subject for which the

"Guide" has been harshly criticised by persons at interest.

It will not fail to be noticed, we imagine, that tin, in the instances under discussion, is recommended only when of the best quality and used in conjunction with a "waterproof" sheathing paper. We suppose the fact that it must be painted on both sides and kept painted season after season will warmly commend it to factory owners with large areas of roof to look after.

* * *

New York is busy just now trying to find a way to get rid of some of the duplicated jurisdictions under which buildings rest in that city. Writing on this subject, Mr. Rudolph P. Miller cites as an example the case of plumbing and drainage in buildings in which the Bureau of Buildings is directed by law to prepare rules and regulations for the installation of plumbing and to enforce the same.

At the same time the Tenement House Law makes certain requirements as to plumbing in tenement houses, and as a matter of fact, the Tenement House Department is issuing orders with respect to plumbing.

The Health Department in the Sanitary Code has a number of provisions affecting the plumbing, and it still assumes the right to regulate plumbing, as shown by the fact that they recently revised one of the sections of the code. The Labor Department also assumes certain jurisdiction over plumbing in factories. Similar conditions exist to some extent in matters of elevator installation, and other things.

The logical solution seems to be consolidation of these various different departments having jurisdiction over building into one city department and charging this department also with the enforcement of the provisions of the Labor Law within the city limits, so far as they affect buildings or building construction, says Mr. Miller. This proposed department should consist of three great divisions, which I will call, for convenience sake, the Construction Division, Maintenance Division and Fire Extinguishment Division.

The Construction Division should have the supervision over all new buildings and alterations to existing structures and enforce requirements of the Building Code so far as they apply to new construction and such parts of the Tenement House and Labor Laws as affect new buildings for alterations.

* * *

The Maintenance Division, the most important of the three, should look after the building when completed, alterations finished, the lawful conditions maintained and to see that exit facilities are adequate in old buildings, and that the newer ones are kept available at all times. It would also be in the province of this division to see that ordinary housekeeping conditions are properly observ-

ed. In this way the dangers from fire would be lessened. This division would also have the inspection force of the Tenement House Department, which now looks after old buildings; the inspection force of the Fire Prevention Bureau; the inspection force, so far as there is any, of the Department of Water Supply—meaning by this those inspectors who are sent around to see that there is no water waste and those who look after the electrical wiring of buildings.

The inspection work, so far as it applies to buildings, now under the Board of Health, would also be included in the work of the Maintenance Division, which would also take care of the special inspection work, such as elevators, plumbing, boiler and the supervision over combustibles.

As a matter of administration, the inspectors of this division could be divided into groups, each unit limiting their work to the inspection of tenement houses, for instance, others theatres, factories, and so on. It may be found that such an arrangement would lead to a greater efficiency, but these details should be left to the departmental heads to arrange.

* * *

The Fire Extinguishment Division would be designed to look after putting out of fires. At the present time there is a very important division, and if the department were thoroughly organized and the other two divisions raised to a high standard of efficiency this third division would lose much of its importance, for if buildings are properly constructed and maintained the causes and chances of fires should be reduced materially.

One of the greatest advantages to accrue from a consolidated department would be the possibility of transfer of inspectors from one division to another as would be necessary. It has been maintained by many that the most efficient inspections for fire prevention can be obtained by the employment of firemen. I am not in accord with this idea. Firemen are employed and are trained primarily for the extinguishment of fires, and it does not make for efficiency to have their duty interfered with by requiring them to do inspection work. While there is an advantage in firemen becoming familiar with buildings through inspection, such work should be restricted to the lightest form, namely, merely to see that places are kept free from rubbish and matters of that kind. If, however, it is true that the firemen make better inspectors than others, as these men grow older in the service they could be transferred from the Fire Extinguishment Division to the Maintenance Division, where they could be utilized as inspectors. There they could act as a reserved force to be called upon by the Fire Extinguishment Division when there is a special stress, such as occurred at the time of the Equitable fire, when men were kept on duty for extended periods, day and night.

It is essential that the head of the proposed department be efficient in every respect. Any machine, no matter how well designed and constructed, would fail to give satisfactory results if in the hands of an incompetent.

The "Engineering News" has a little chapter on "What Concrete Will Not Stand" that ought to be cut out and pasted up where it could be seen every day in the office of every man who dabbles in concrete.

"Practically every failure and near failure in concrete has been due to confidence on the part of somebody that concrete can surmount all manner of bad usage," observes the "Engineering News."

"The fact is that there are plenty of good standards in concrete design and in concrete construction, but that they are not observed by many of those engaged in concrete building.

"This neglect has a three-fold cause: ignorance, undue economy and over-confidence—and the first two could not exist were it not for the last. It is a pretty poor concrete man who does not know that frozen concrete will not set—but there are plenty who will take a chance with ten-day concrete at 40 degrees F. if they need the forms. Why? Primarily because they want to save the money that an additional set of forms would cost. But if there were not confidence that the concrete will stand up, the pocket-book would not govern judgment.

"Practically every designer of concrete buildings will admit that 850 pounds per square inch is too high a stress in the concrete beams over the room where his own family sits down to dinner, but he is not so worried about that stress when it is in some one's garage. He feels confident that it will not fall down, in spite of tests which show it to have a low safety factor.

"Throughout the whole field this pernicious combination of ignorance and complacency extends; instances might be multiplied almost without end. It is the duty of the societies such as the American Concrete Institute, which recently convened in Chicago, to urge upon the workers in the industry a proper appreciation of the dangers of this over-confidence. Skinning of work is a species of ignorance, for nothing is quite so evident as the fact that good work in concrete construction pays. But the man who thinks he knows more than the so-called authorities is the hardest to reach because he is clad in the nearly impenetrable armor of conceit.

"Every concrete failure means a slight betterment in methods, for a certain number of hitherto unconvinced practical or commercial men are shown by that most potent object lesson, a heap of ruins, just what concrete will not stand."

* * *

The committee recently appointed to standardize future Federal buildings throughout the country appears to be proceeding in a manner that can hardly inspire confidence in the wisdom of their course, says an exchange. Since the repeal of the Tarsney Act the capacity of the bureau has been so severely taxed that already it is said to be several years behind in its work, a situation that is aggravated by the refusal of Congress to appropriate the necessary funds for increasing the drafting force.

As a means of remedying the present in-

tolerable conditions the chairman of this new committee is reported to have stated—not that he drafting force would be augmented by a sufficient number of competent men to successfully cope with the situation—but that "there would soon be a good place paying \$8,000 a year for a first-class business man who also knows architecture." According to the report the holder of the "good place," who it is proposed shall be a civilian, not under the civil service rules, will take precedence over the present Supervising Architect of the Treasury, and will be responsible for all of the public buildings hereafter erected just as the Supervising Architect is now responsible. In other words, the proposed new official is expected to direct the policies of the Bureau of Buildings, and the so-called "Supervising Architect" is apparently to be relegated to the position of chief draftsman. The expediency of such a shifting of title is not obvious from any legitimate viewpoint, and the farce is unlikely to increase the respect of the public toward its perpetrators.

* * *

It would seem, moreover, that the "first-class business man" who succeeds in meeting the requirements of his position by actually standardizing government buildings, will give little evidence that he "also knows architecture," for the two conditions are contradictory. The proposal of the committee, as reported, is to formulate stock designs for government buildings to be located in cities and towns of varying populations—that is, the same design for future post offices is to be used in a farming community of 10,000 people in Northern Maine, and in a town of the same size suburban to San Francisco.

* * *

Such an absurd proposition lacks that very practicality upon which the sponsors of the new movement so pride themselves. Quite aside from any effete considerations of appearance or of congruity of style with neighboring buildings, there are matters of local convenience or necessity which are rarely identical in any two cases. The very magni-

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tude of the country, with its widely divergent climates, presents an almost insurmountable obstacle in the way of adopting even a general American style and to seriously propose that a single stock design for a post office—for example—is appropriate for every section of the country, is preposterous. The local availability of certain materials must also affect any well-considered design and often be a great factor in its cost. A regime of a few years under this policy of standardization induced by politicians is likely to be an expensive experience to the country, not only in increased money outlay, but in the decreased efficiency of future Federal buildings and loss of artistic qualities in their architecture.

* * *

"I do not think this is a time for despair," says George B. Cortelyou, "but rather for fresh efforts to push ahead into new fields as well as for the development of old ones, that we may rise to our opportunities and lay the foundations of an enduring prosperity. Least of all do I think that this is a time for the abatement of publicity efforts; indeed, these should be redoubled now, because if advertising increases demand and stimulates production this is the time to advertise; and the merchant or manufacturer who keeps his product prominently before the public now is not only proving his faith in the soundness and strength of American industry, and thus setting good example to his more timid brother, but is certain to reap an ample reward in the material return that will come to him."

The way to get money is to sell things to people who want things. People who want building material and building devices read "The Guide."

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**William H. Cookman, architect for the Pennsylvania Railroad Company, won the competition recently held for the new station at Wilkinsburg, Pa.

**Kenneth M. Murchison, architect, 101 Park avenue, New York City, recently won the competition held by the Pennsylvania Railroad Company for the new station to be erected at Johnstown, Pa.

**National Sash & Door Company, Inc., has removed its factory and office from New Lots and Hopkinson avenues to 137-139 Bayard street, Brooklyn, N. Y., where it will continue the manufacturing of kalamein doors, windows and mouldings, and also continue to specialize in standard fire doors and labor law windows.

**David J. Havens, for eleven years vice-president and secretary of the Rapp Construction Company, of 30 East Forty-second street, erectors of patent fireproof floor arches, has withdrawn from the firm and organized a new company, known as the Jefferson Concrete Company, with offices at the same address. Mr. Havens will continue along the same line, the installation of reinforced concrete arches for hotels, loft buildings and apartment houses, etc.

**M. Tscherner has resigned as president of the Clifton Porcelain Tile Company, of 51 Clifton street, Newark, N. J., and Henry A. Pike has been elected a member of the board. Mr. Tscherner remains as a director. Mr. Pike was formerly connected with the American Vanadium Company and the Flannery Belt Company, of Pittsburgh. The Clifton Porcelain Tile Company has begun to market the non-lead glaze porcelain faced wall tile and vitrified floor tile under the Stegmeyer process which makes a non-crazing product at a lower cost than was possible, it is said, with lead.

**National Brick Manufacturers' Association will hold its annual convention at Detroit, February 14 to 20. William B. Wreford, of the Detroit Brick Manufacturers' Association, in co-operation with President Eben Rodgers, of Alton, Ill., and Theodore A. Randall, of Indianapolis, constitute the committee of arrangements. The association will also bring to Detroit the National Paving Brick Manufacturers' Association, the National Clay Machinery Association, and the American Ceramic Society.

**International Association of Master House Painters and Decorators of the United States and Canada will meet in annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Corcoran Building, Washington, D. C., chairman of Convention Committee.

**Architectural League.—At a meeting of the League this week with Cass Gilbert presiding, resolutions offered by Thomas Hastings were passed deploring the destruction of great architectural triumphs in the European war zone and further saying: That the Architectural League of New York voices its most profound regret for the dire misfortune which has already befallen the Cathedral of Rheims, as well as the library of Louvain and other noble edifices in the war zone; and, further resolved, That we hereby make record of the hope that all belligerents will hereafter respect the master works of past generations which belong to the whole world, and which no indemnity can replace, and the ruins of which can stand only as a perpetual disgrace to their destroyers. Moving pictures taken in the war zone and photographs of the wrecked and ruined cities were shown.

THE EFFECT OF THE ILLINOIS ARCHITECT'S LICENSE LAW

The report of Francis M. Barton, Secretary of the State Board of Examiners of Architects, presented at the Illinois State Convention of Licensed Architects, is an exceedingly interesting statement. Although the law requiring that architects practicing in Illinois must be licensed has been in effect for seventeen years, few attempts have been made to enforce rigidly its provisions until the present Board of Examiners assumed office. Before that time there had been no Supreme Court decision touching upon the legality of

the act and the board, whose duty it is to enforce it, had no precedent to follow. It is interesting to note that since the legality of the act has been established the board proposes to enforce the provisions of the act on its broad interpretation.

In the report the general policy of the board is outlined, and the practical effect of the architects' license law are noted. Some of the statements are of special interest to engineers—particularly structural engineers.

The full report, not essentially changed as to tone or form, is herewith given:

"It gives me great pleasure to have this opportunity to inform you of the work of the present Board.

We have to-day 863 licensed architects; 410 architects who were admitted because they were practicing when the law went into effect, and 453 architects who passed examination by the Board. There have been given three regular class examinations since the last biennial report was made as follows: April 15, 16 and 17, 1913; October 14, 15 and 16, 1913; April 14, 15 and 16, 1914; and preparations are now being made for the coming fall examination, which will take place October 20, 21 and 22, 1914, all at the University of Illinois, Urbana. There have also been held four special examinations under the provisions of the "Board Rule No. 10" adopted May 10, 1907) and an exception to the same (adopted June 18, 1909). These special examinations have been held at the Board rooms, in Chicago, at the following times: April 7-8, 1913; September 25-26, 1913; March 25, 1914, and June 18, 1914 (also at Urbana). A total of 236 candidates have taken the regular class and special examinations (up to September 30, 1914), and of these 105 have passed and received certificates. Thirty practicing architects of other States received certificates after examination before the Board, by exhibits, and in some cases, after personal attendance. The following table gives a summary of the licenses issued, revoked and in force:

Date.	Licenses in				
	Total issued.	Total revoked.	Total in force.	*A.	†B.
Dec. 1, 1898.	744	...	744	701	43
Dec. 1, 1900.	797	140	657	574	83
Dec. 1, 1901.	828	159	667	564	103
Dec. 1, 1902.	858	173	685	555	130
Dec. 1, 1903.	875	192	683	546	137
Dec. 1, 1904.	914	226	688	526	162
Dec. 1, 1905.	942	238	704	517	187
Dec. 1, 1906.	967	263	704	484	223
Dec. 1, 1907.	995	288	707	484	223
Dec. 1, 1908.	1029	326	703	467	236
Dec. 1, 1909.	1067	341	726	456	270
Dec. 1, 1910.	1131	377	754	445	309
Dec. 1, 1912.	1259	413	846	431	415
Oct. 5, 1914.	1363	500	863	410	453

*Practicing before license law went into effect.

†Passed examination by the Board.

A total of 104 new licenses have been issued since the publication of our last biennial report, December 1, 1912, and 87 licenses have been revoked. It will be observed that there are only 17 more architects practicing now than two years ago.

The present Board is proud of the results it has obtained, and these results were possible solely because of the harmony that existed among its members.

This Board agrees, as a unit, in a broad interpretation of the wording of the Act, and in the strictest enforcement of the law. This Board proposes to enforce the Act on its broad interpretation and will only narrow

down its interpretation by the decision of the Supreme Court.

The present Board holds that only a licensed architect can practice in this State, or from this State, and that his license is not transferable or negotiable. Any combination formed for the practice of architecture, except between licensed architects, is illegal and any licensed architect who assists others to practice, who have no license, is guilty of dishonesty, as provided in the Act, and should have his license revoked.

The Illinois State Board of Examiners of Architects has been in existence for seventeen years, but there was no Supreme Court decision until the present Board assumed office, and practically no court action of any importance that would give to this Board a precedent to follow. For the past seventeen years we have read a great many legal opinions from eminent lawyers, and there has been much argument among lawyers and among architects and the public as to the meaning of the wording of the Act. This wrangle has existed for seventeen years. The Act was never broadly enforced, but complaints were mostly settled on a compromise which still left the meaning in doubt.

This Board proposes that at least eight cases of different forms of violation of the Act shall reach the Supreme Court inside of the next year, at which time the courts will definitely settle forever any question as to the proper interpretation of the wording of the Act, that is, the rights of the architect and the rights of the public; and when this has been accomplished, then the enforcement of the Act will be a more simple matter. Most of these eight cases are in preparation and some are in court at present. However, it must be borne in mind that the cases selected are cases where the violation is specific of its kind and not complicated by various other elements, so that when a decision is rendered in the Supreme Court it will be clean cut and will apply only to that particular form of violation. In other words, where a decision is made in a case where there are many points at issue the decision is of little value, except as applied to that specific case, but if the decision is based on a simple issue it will apply to all similar cases and will be of great value to the Board.

There have been attempts made by men and bodies of men, both inside and outside the profession, to dominate this Board. The members hold that their position is a judicial one and must be free from such influence. Any complaint received by this Board, either from an individual or a body of men, will receive the same consideration, and no architect will be cited before this Board without first having had an opportunity to appear informally before it.

It must be borne in mind that under the decision of the Appellate Court in the "Kaeseberg" case, this Board cannot revoke a license unless two cases of violation are proven; hence, a great many single complaints are filed that never come up formally before the Board. This leads the public and the archi-

teets of the State to feel that a great many cases presented to the Board are never pushed through to a proper finish. Each single complaint is filed, if the indications are that it contains a violation. When information of violations of the law is received from any reliable source, while the personnel of this Board remains unchanged, all architects may expect courteous treatment and a square deal, whether they be black, white or yellow, and regardless of their creed.

A word regarding the "City Ordinance" being violated by any architect may be expedient at this time. This Board is a State Board, and as different cities and towns have different ordinances, the Board cannot revoke an architect's license because he violated the city ordinance, when the same architect could have built the same structure in other towns of the State without violating any ordinance.

This Board holds that the purpose of the examination is to ascertain the qualifications of the candidate, and that when the candidate procures his license he must, in his practice, keep near to the standard set by the Board, recognizing the existence of a low standard of work turned out by some architects (drawings and specifications being incomplete, either as to construction or materials or both, and often incomprehensible and not in accordance with good engineering practice, and the building erected in accordance therewith not only being a financial loss to the owner but a constant menace to the public) notice was served last June, that this Board will cite before it for trial any architect who prepared drawings and specifications issued for use in this State which indicates gross incompetency or recklessness.

The Board trusts that every licensed architect will co-operate in assisting to eliminate the preparation of drawings and specifications which indicate gross incompetency or recklessness.

This Board has found its greatest work to be the elimination from the architectural field of various architectural firms, which operate under an alias, such as architectural engineers, civil engineers, industrial engineers, engineers, designers, builders, etc. Most of these violations are assisted by a licensed architect, who is either financially interested, a partner, or who secures a salary. This Board has eliminated at least 20 such illegal combinations in the last few months and expects to eliminate all others from the architectural field in the near future. These combinations are to a great extent the result of lack of enforcement of the law or improper interpretation of the meaning of the wording of the Act. Attention is called to the fact that all structural engineering on buildings is part of the architect's work and cannot be performed by others, except under the direction of a licensed architect; and that the architect is responsible for all engineering data shown on his sealed plans, whether performed by him or not.

The present members of the Board have thoroughly analyzed the wording of the Act, and all agree it is the best Act creating any

of the Boards of the State of Illinois. We do not say that the Act is perfect, but we do say that it is usual and customary not to modify a law until, through the courts, its strong and weak parts have been found. Practically no court decisions, interpreting the wording of the Act, have been had in seventeen years. The present Board feels that no attempt should be made to make any changes in the wording of the Act until such time as through the courts it is found inadequate. Any attempt made by anyone at this time to have the Act changed will be considered inadvisable.

It takes but little study of the problem to find what is needed to give the architects and public the results that the Act intended. No act is of any value or effect, unless enforced. We have the best act on the statute book, but we have not the full power to enforce it properly.

The Supreme Court has just held that the Act is constitutional, which is the only litigation of any real value this Board has had in seventeen years, and any change in the wording of the Act would render this decision worthless, as it would not apply to an act which has been changed.

The architects and public must then wait until the new or changed act is held constitutional in order to enjoy the same security they now have.

The Legislature should look with favor on any legislation that will assist the State Board in enforcing the law that has been held constitutional, and the Board wishes the architects to assist it in procuring proper legislation, thus giving the Board legal power to stop all buildings that are started in this State without plans drawn by licensed architects and all structures that are attempted to be supervised by others than a licensed architect, or a superintendent under the control of a licensed architect, as provided by law.

If such an amendment is procured the Board will guarantee to the public and to the licensed architects of the State the full benefit of the Act of which they have been deprived for seventeen years.

LAYING CORK TILE FLOORING.

For many uses a cork tile over a concrete structural floor offers qualities which can be developed by no other material.

In applying cork tile flooring to concrete we use two methods, according to conditions. On new work, in which we furnish the under floor or can dictate its composition, we lay on the concrete floor slab while still green 1 inch of asbestos concrete composed of 1 part Portland cement, 1 part asbestos fibre and 3 parts sand. This is troweled to a true surface with a sidewalk finish, $\frac{1}{2}$ inch below the finished floor level. This composition makes a fibrous bed which will hold a nail.

When this is thoroughly dry, the cork tile are applied, being first bedded in a special waterproof mastic. They are laid by a method which closes and cements all joints, at the same time distributing the pressure evenly

over the surface. The tile are bradded into place with headless brads which are driven below the surface of the tile and hold them in place while the mastic is setting up, which requires about 12 hours. On hard concrete or any other surface into which nails cannot be driven, the tile are weighted into place. The result is the same in both cases, but in the latter more time is required, and it is somewhat more expensive in consequence.—“Concrete-Cement Age.”

CEMENT PLASTERED EXTERIORS.

Cement plastered exteriors are admittedly the most attractive and desirable finish for the modern idea of domestic architecture. “The only trouble is that it does not stay put,” is repeated over and over again. The trouble is not with the plaster nor with the man that puts it on, but it is wholly a matter of the integrity of the surface that is covered with cement plaster. No wooden structure is fit for such a purpose unless the studding is cross-bridged very firmly. The studding should be no lighter than 2x6, full sheeted and all well anchored to sills attached to concrete or masonry foundations. Tile masonry walls are 100 per cent. better than any wooden construction. In fact, they are about perfection and cost no more than wood.—“Rock Products.”

ARCHITECTS' DUTIES AND FEES.

In answer to the questions, “What should an architect do for his client? How large should the bill be?” the American Institute of Architects replies:

First—Conferences with clients; preparation of preliminary drawings; making of working drawings, that is, the drawings from which contractors submit bids and from which the building is erected; writing of the specifications of construction and finish; preparation of the large scale and full size detail drawings of construction, design and finish; and general direction and supervision of construction and completion.

Second—The minimum fee for such professional service as recommended by the institute, is a 6 per cent. commission based upon the cost of the work complete.

It is the custom of architects on certain classes of residential work; on alterations or remodeling work; in monumental work; on furniture or other work of a similar nature; or upon operations conducted under many separate contracts, where much study and business attention are required, to charge a special additional fee or a higher commission.

For consultation services and for professional advice architects charge fees in proportion to the questions involved and the professional service given. Where heating, ventilating, mechanical, structural, electrical and sanitary problems require the service of a specialist it is customary for the owner to pay for such service. It is also customary for the owner to pay the necessary traveling ex-

penses of the architect incurred in connections with the work.

If, after a definite preliminary scheme has been approved, changes in drawings and specifications or other documents are required by the owner, or if the architect be put to extra labor and expense by the delinquency or insolvency of a contractor it is customary for the owner to pay the architect for the additional service he may have to incur in such changes and service.

Payments to the architect are considered due as his work progresses in the following order: On completion and acceptance of the preliminary drawings, one-fifth of the entire fee; on completion of specifications and general working drawings exclusive of details, two-fifths additional and the remainder from time to time as the work progresses in proportion to the amount of service rendered. Until the actual cost is determined charges are based upon the estimated cost of the work and payments are received on account of the entire fee.

In case of abandonment or suspension of work, the basis of settlement is as follows: For preliminary drawings a fee in accordance with the character and magnitude of the work or one-fifth of the entire fee; for preliminary studies, working drawings and specifications, exclusive of details, three-fifths of the entire fee.

Supervision of an architect, as distinguished from continuous personal superintendence which may be secured by the employment of a clerk-of-the-works or superintendent of construction, means such inspection by the architect or his deputy of work in studios and shops or a building or other work in process of erection, completion or alteration, as he finds necessary to ascertain whether it is being executed in general conformity with his drawings and specifications or directions.

The architect has authority to reject any part of the work which does not so conform and to order its removal and reconstruction. He has authority to act in emergencies that may arise in the course of construction, to order necessary changes, and to define the intent and meaning of the drawings and specifications. On operations where a clerk-of-the-works or superintendent of construction is required, the architect employs such assistance at the owner's expense.

SPACE FOR A SMILE.

A Sufficient Reason.

“I'll assign a lawyer to defend you,” said the judge to the old negro who was charged with stealing chickens.

“Oh, no, suh, no, suh! please don't do that,” the darkey begged.

“Why not?” demanded the judge. “It won't cost you anything. Why don't you want a lawyer?”

“Well, jedge, ah'll tell yo', suh,” and the old darkey waved his battered hat confidentially; “hit's best dis way, ah wan' tuh enjoy dem chickens mase'f.”

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Artesian Well Drilling Co.,
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Ridpath & Potter Co., Bourse Bldg., Phila.

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Chas. H. Robbins, 125 S. 11th st., Phila.
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Awnings.

Bernard McCurdy,
N. E. Cor. 9th and Arch sts., Phila.

Brick (Face, Etc.)

O. W. Ketcham, Builders' Exchange, Phila.
S. B. Dobbs, 1218 Chestnut st.

Brick Arches and Angles.

R. B. Wible & Son,
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Baird-Osterhout Construction Co.,
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Philadelphia Electric Co.,
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Keystone Blue Paper Co., 910 Filbert st.,
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Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

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F. E. Carpenter Co.,
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Floor Finishes.

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Floors and Floor Finishing.

General Flooring & Mfg. Co., 9 S. 18th st.

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United Gas Improvement Co.,
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Franklin Fixture Company,
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Builders Steel Products Co.,
131 S. 24th st., Phila.
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Belfi Bros. & Co., 20-22 S. 19th st.

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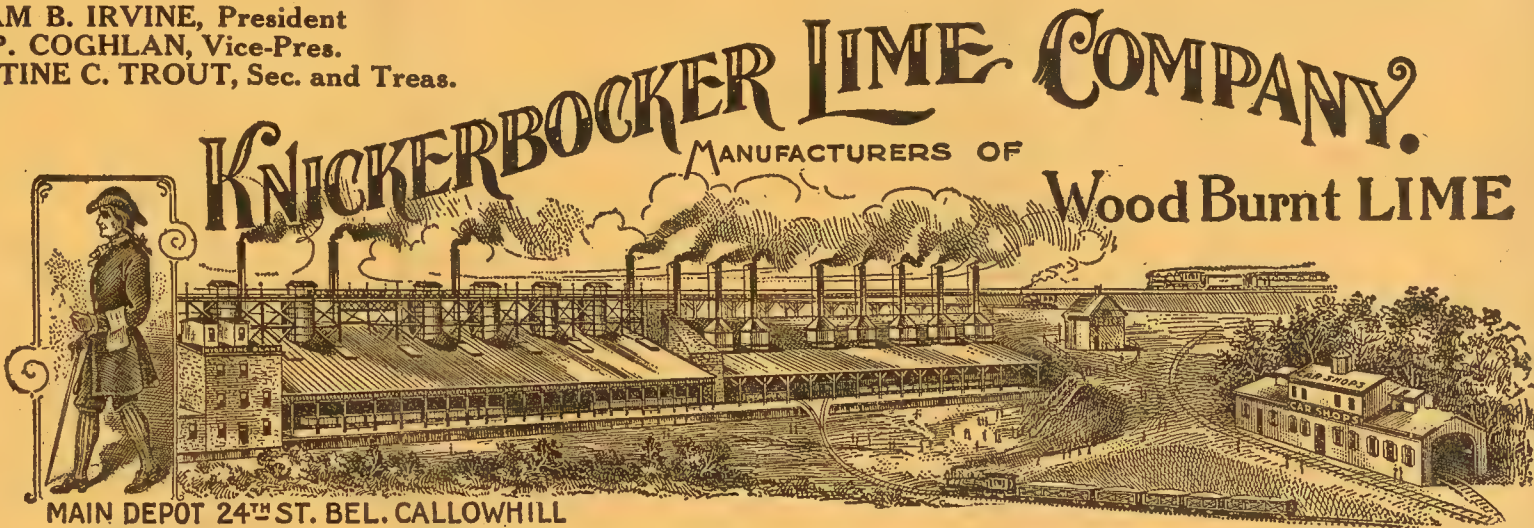
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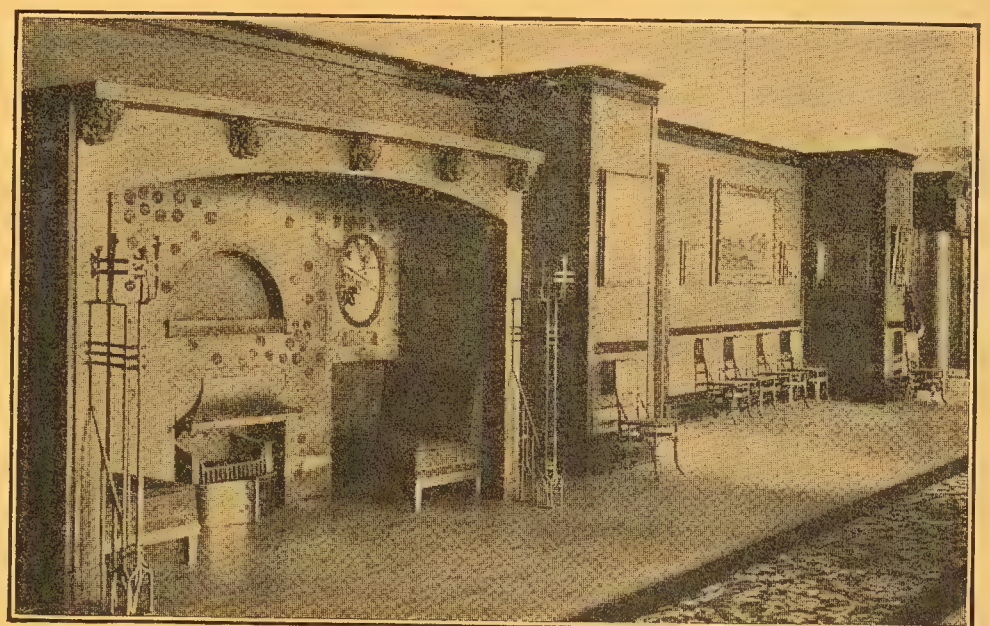
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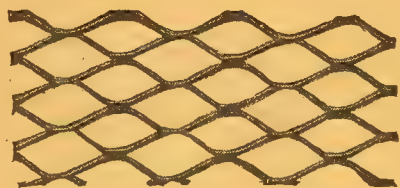
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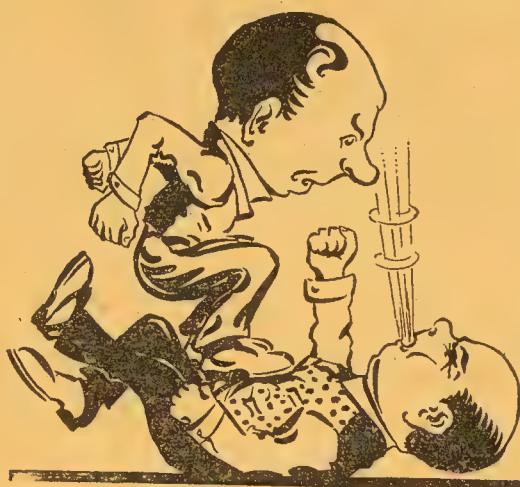
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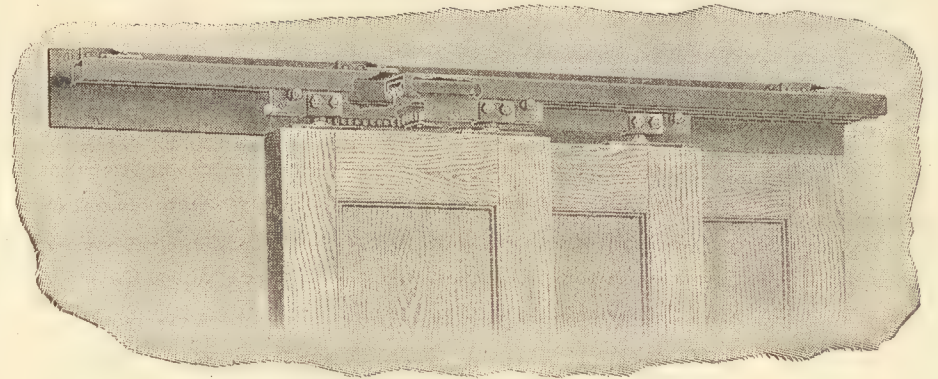
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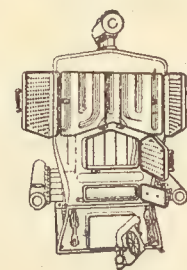
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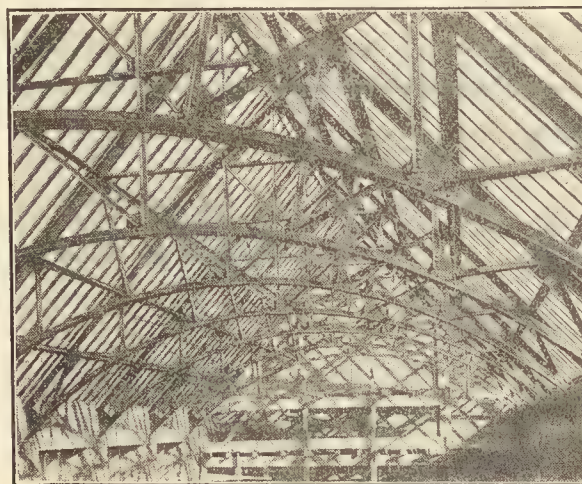


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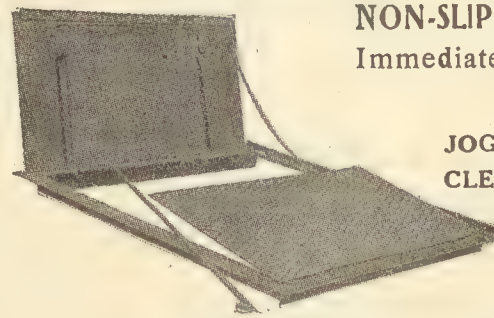
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Vol. XXIX., No. 49.

PHILADELPHIA, WEDNESDAY, DECEMBER 9, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences, (32) 63rd & Sansom streets, Phila. Architect, Private plans. Owner, J. N. Mitchell, 46th and Market streets, Phila. Brick, 2-story, 16x34 ft. each, slag roof, gas and electric fixtures, hot water heating. Work started.

Apartment House (alt. and add.), 7th and Spruce streets, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, name withheld. Brick, 4 stories, 25x96 feet, slag roof, steam heating, electric lighting, oak floors. Plans in progress.

Market House, 954-56 Marshall street, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Charles Ellman, 314 N. 2d street, Philadelphia. Brick, concrete and steel, 1 story, 23x176 feet, slag roof, electric lighting, concrete floors. Architect taking bids due December 21st. The following are figuring: Lam Bldg. Co., 1001 Wood street; Freund-Seidenbach Co., Bulletin Bldg.; Bailey-Lush Co., 201 N. Broad street; Wm. Linker Co., Heed Bldg.; F. C. Borel, 5425 Summer street, all of Phila.

Stores and Residences (3), Jamestown and Cresson avenues, Phila. Architect, private plans. Owner, J. J. Hurley, 503 E. Monastery avenue, Roxborough, Pa. Brick, 2 stories, slag roof, hot air heating, gas and electric lighting. Owner is sub-letting all contracts.

Residences (5), Gates & Silverwood streets, Phila., \$7,000. Architect, private plans. Owners, Keller Bros., 480 Harmon Road, Manayunk, Phila. Brick, 2 stories, 14x30 feet each, tin and slag roofs, hot air heating, gas lighting. Owners are sub-letting all contracts.

Residences (19) and 3 Stores and Apartments, Frankford avenue and Margaret street, Phila. Architects, Lachman and Murphy, Witherspoon Bldg., Phila. Owner, name withheld. Brick, 2 and 3 stories, 15x30 feet, 20x70 feet, slag roof, hot water

heating, electric lighting. Architects have received bids.

Laboratory, 307-309 New street, Phila. Architect, D. K. Boyd, 15th and Walnut streets, Phila. Owners, England, Walton & Co., 3rd and Vine streets, Phila. Brick and concrete, fireproof, 2 stories, 25x45 feet, slag roof, waterproofing, metal lath, concrete floors, (heating, electric work and plumbing, separate bids). Architect has received bids.

Store (Alt. & Add.), 720 South street, Phila. Architect, R. Beard, 607 S. Seventh street, Phila. Owner, I. Fisher, on premises. Brick, 2 stories, 19x75 feet, slag roof, steam heating, electric lighting. Plans in progress.

Residences (18), 16th & Ruscomb streets, Phila. Architect, private plans. Owners, Clark & Craighead, 2900 N. 24th street, Phila. Brick, 2 stories, 15x42 feet each, slag roof, hot water heating, gas and electric lighting, oak floors. Work started.

Inn, 1301-1307 Ridge avenue, Phila., \$25,000. Architect, Carl P. Berger, 1418 S. Penn Square, Phila. Owner, Estate of J. F. and R. S. Betz, 415 Callowhill street, Phila. Brick, 3 stories, 105x57 feet, slate and tin roof, electric lighting, steam heating, metal ceilings, bar fixtures, marquee and fire escapes. Architect taking bids due December 10th. The following are figuring: Burd P. Evans & Co., 13th and Wallace streets; Ketcham & McQuade, 1029 Brown street; Philip Haibach Contracting Co., 26th and Thompson streets; Stacy Reeves & Sons, 2011 Market street; Wm. R. Dougherty, 1610 Sansom street; H. P. Schneider, 3715 Old York Road; A. L. Fretz & Sons, 1222 Chancellor street; Freund-Seidenbach Co., Bulletin Bldg.; Geo. Kessler Contracting Co., Drexel Bldg.; Chas. C. Pace, Merion, Pa.

Apartments (Alt. & Add.), 5213-5215 Chestnut street, Phila. Architects, Savery, Scheetz & Savery, Stephen Girard Bldg., Phila. Owners, Isaac Kershaw & W. Sher-

wood Crowl, 52nd and Chestnut streets. Brick, 2 stories, slag roof, (heating and electric work, reserved). Architects have received bids.

Stores, (4), 11th and Shunk streets, Phila. Architect, E. Allen Wilson, 1208 Chestnut street. Owners, Raymond & Kilpatrick, 13th and Shunk streets, Phila. Brick, 2 stories, slag roof, steam heating. Plans in progress.

Residence (Alts.), Chestnut Hill, Phila. Architect, Chas. Barton Keen, Bailey Bldg., Phila. Owner, Miss Mary E. Hebard, Wynedcliffe, Chestnut Hill, Pa. (Plumbing, heating and electric work, reserved). Architect taking bids due December 9th. The following are figuring: Thos. M. Seeds, Jr., 1207 Race street; Wm. J. Gruhler Co., 219 E. High street; H. E. Grau, 1707 Sansom street; Pringle Borthwick, 8018 Germantown avenue; Geo. L. Croll, Rosemont, Pa.

Apartment House, Sydenham and Master streets, Phila. Architect, E. Allen Wilson, 1208 Chestnut street, Phila. Owner, I. Newton Smith, care of Architect. Brick, 4 stories, 73x112 feet, slag and slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Residences (6), 5th & Somerville streets, Phila. Architect, private plans. Owner, Schreiber and Steinhauer, 5424 N. Fifth street, Phila. Brick, 2 stories, 15x30 feet each, slag roof, hot water heating, electric lighting. Work started.

Gymnasium, 2nd and Catherine streets, Phila. Architect, Philip H. Johnson, Land Title Bldg., Phila. Owner, Board of Recreation and Playgrounds, City Hall, Phila. Brick and stone, 2 stories, 60x100 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Apartment House (Alt. & Add.), Broad and Dickinson streets, Phila. Architects, Milligan & Pierson, 520 Walnut street, Phila. Owner, John Burt, 1443 S. Broad street, Phila. Brick, 3 stories, 18x125 feet, slag roof, hot water heating, electric light-

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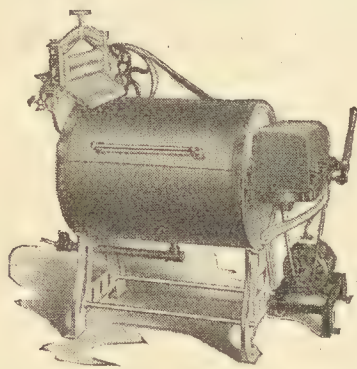
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ing, oak floors. Architects have received bids.

Shed, Thirty-fifth and Gray's Ferry road, Philadelphia. Engineers, Day & Zimmerman, 11 Chestnut street, Philadelphia. Owners, Harrison Bros. & Co., on premises. Steel and corrugated iron, 2 stories, 30x100 feet. Plans in progress.

Warehouse and Storage Building, Commonwealth and Mifflin streets, Philadelphia. Architects, Savery, Scheetz & Savery, Stephen Girard Building, Philadelphia. Owners, Crew-Levick Company, Land Title Building, Philadelphia. Brick, 2 stories, 25x80 feet, slag roof (heating and lighting reserved). Architects taking bids, due December 12th. The following are figuring: Barclay White Company, Perry Building; James H. Wells, Heed Building; F. L. Hoover & Sons, 1023 Cherry street; F. A. Havens Company, 845 North Nineteenth street; E. E. Hollenback, Fifteenth and Race streets; H. E. Grau Company, 1709 Sansom street; R. C. Ballinger Company, 218 North Thirteenth street; A. Whitehead, Inc., 1624 Latimer street; Roydhouse-Arey Company, Fidelity Building; H. H. Wehmeyer, 1004 West Lehigh avenue.

Residence, Fifty-third and Overbrook avenue, Philadelphia, \$6,000. Architect, private plans. Owner, John H. McClatchy, Land Title Building, Philadelphia. Stone, 3 stories, 27x34 feet, shingle roof, hot water heating, gas and electric lighting. Owner is sub-letting all contracts.

Store Building, Second and Church streets, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, Harry Fleigelman, 36 North Second street, Philadel-

phia. Brick, 4 stories, 60x100 feet, slag roof, steam heating, electric lighting, maple floors, rolled steel sash. Architects taking bids, due December 12th. The following are figuring: Barclay White Company, Perry Building; A. L. Fretz & Sons, 1222 Chancellor street; Samuel Schultz, 3113 Montgomery avenue; William R. Dougherty, 1610 Sansom street; A. Whitehead, Inc., 1624 Latimer street; E. E. Hollenback, Fifteenth and Race streets; Lam Building Company, 1001 Wood street; H. E. Baton, Twelfth and Sansom streets; Charles Gilpin, Harrison Building; F. A. Havens Company, 845 North Nineteenth street; Smith-Hardican Company, 1606 Cherry street; Harry Gill, Jr., 2515 Germantown avenue; H. E. Grau Company, 1709 Sansom street; F. J. Boas, 201 North Broad street; E. J. Kreitzburg, 1345 Arch street, all of Philadelphia.

Stable (add.), 30 East Rittenhouse street, Germantown. Architect, private plans. Owners, Union Transfer Company, Broad Street Station, Philadelphia. Brick, 1 story, 28x70 feet, slag roof, electric lighting. Owners taking bids, due December 10th. F. B. Davis, 240 North Sixteenth street, and W. C. Wright, 22 Harvey street, eGermantown, Philadelphia, are figuring.

Hospital (alt. and add.), 8815 Germantown avenue, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Chestnut Hill Hospital, on premises. Brick, 1 story, 52x38 feet, slag roof, steam heating, electric lighting. Architects taking bids, due December 11th. William J. Gruhler, 219 East High street, Germantown, and George S. Roth & Sons, 230 East Graver's lane, Germantown, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, Kensington avenue & Hilton street, Phila. Architect, Chas. W. Denny, Haley Bldg., Phila. Owner, Chas. Devlin, 3219 Kensington avenue, Phila. Brick, 2 stories, 100x75 feet, slag roof, electric light-

ing, hot water heating, elevators, (lighting reserved). Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, Phila.

Store, (Alt. & Add.), 4425 Lancaster avenue, Phila., \$2,500. Architect, private plans.

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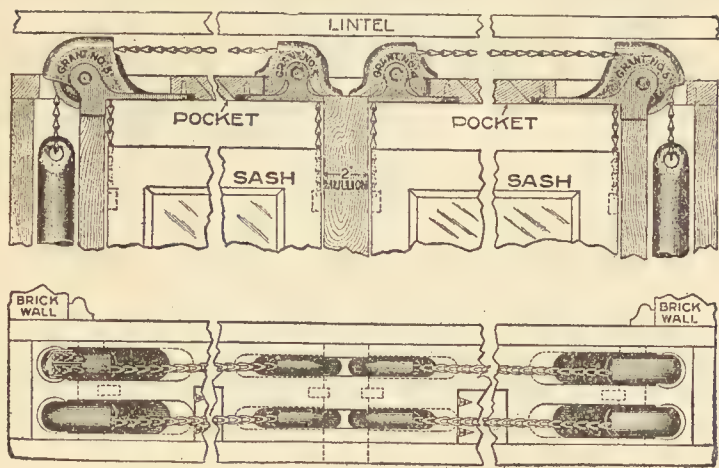
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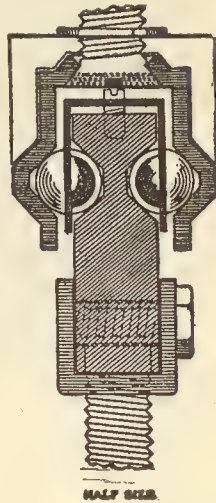
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Owner, John Brewster, Upper Darby, Pa. Brick, 2 stories, 18x32 feet, slag roof, electric lighting. Contract awarded to Frank I. Wintz, 1618 N. 27th street, Phila.

Residence & Garage, Germantown, Phila. Architects, Savery, Scheetz & Savery, St. Girard Bldg., Phila. Owner, Horace M. Potts, 147 E. Coulter street, Germantown. Stone, 2½ stories, slate roof, hot water heating, gas & electric lighting, hardwood floors. Contract awarded to Samuel Harting, 20 E. Johnson street, Germantown.

Residence, 204 Stampers street, Phila., \$3,300. Architect, private plans. Owners, Welsh & Naulty, Third and Pine streets, Phila. Brick, 2 stories, 25x40 feet, slag roof, hot air heating, gas lighting. Contract awarded to Louis Cohen, 417 Christian street, Phila.

Store (Alt. & Add.), 4403 Frankford avenue, Phila. Architect, private plans. Owners, Breyer Ice Cream Co., Ninth and Cumberland streets, Phila. Brick, 2 stories, slag roof, electric lighting. Contract awarded to Jacob Gaertner, 2214 N. Third street, Phila.

New Store Front and Alt., 1223 Market street, Phila., \$5,000. Architect, private plans. Owner, Morris Gross, 1217 Market street, Phila. Consists of new bulk window and interior alteration and addition, electric lighting, hardwood floors. Contract awarded to Basch & Co., 1426 S. Front street, Phila.

Garage, 3708 Chestnut street, Phila., \$1,200. Architect, private plans. Owner, Carroll R. Williams, on premises. Brick, 2 stories, 20x24 feet, tile roof, electric lighting. Contract awarded to Harry Gibson, 4041 Spring Garden street, Phila.

Garage, Appletree and Alden streets, Phila., \$5,000. Architect, private plans. Owner, J. M. Kennedy, 1001 Chestnut street, Phila. Brick, 1 story, 38x124 feet, slag roof, steam heating, electric lighting. Contract awarded to A. Shestack, 528 Reed street, Phila.

Residence, 52nd and Overbrook avenue, Phila. Architect, private plans. Owner, John C. McAvoy, Cynwyd, Pa. Stone, 3 stories, 39x24 feet, shingle roof, hot water

heating, electric lighting. Contract awarded to R. A. McConaghy, Bala, Pa.

Garage, Pulaski and Erie avenues, Phila., \$26,000. Owner, Leo Belmont, 122 S. 13th street, Phila. Architect, private plans. Brick, fireproof, 1 story, 100x138 feet, slag roof, electric lighting, metal lath, gasoline storage, (heating, reserved). Contract awarded to Mockett Const. Co., 6th and Market streets, Camden, N. J., who is taking sub-bids.

Sun Porch, 6119 Wayne avenue, Phila., \$1,100. Architect, M. H. Dickinson, Empire Bldg., Phila. Owner, Mrs. Kate Hicks, on premises. Tile roof, steam heating, electric lighting, oak floors, metal lath. Contract awarded to M. S. Oberholtzer, 5524 Pulaski avenue, Phila.

Store and Dwelling (Alt. & Add.), 22nd and Jackson streets, Phila., \$3,000. Architect, private plans. Owner, Richard Bauer, 8th and Tree streets, Phila. Brick, 2 stories, 10x15 feet, slag roof. Contract awarded to A. Donaldson, 2237 Oakford street, Phila.

Stable (Alt. & Add.), 24th and Ranstead streets, Phila., \$10,000. Architect, Geo. Butler, 62 W. 45th street, New York City. Owners, Wells-Fargo, 822 Chestnut street, Phila. Brick, 2 stories, cement floors, waterproofing. Contract awarded to Edw. Fay & Sons, 2 S. Mole street, Phila.

Club House (Alt. & Add.), 2341 N. 22nd street, Phila., \$2,300. Architect, private plans. Owners, T. B. Smith Republican Club, 22nd and Glenwood avenue. Brick, 2 stories, 19x25 feet, slag roof, electric lighting. Contract awarded to Harry E. Baton, 12th and Sansom streets, Phila.

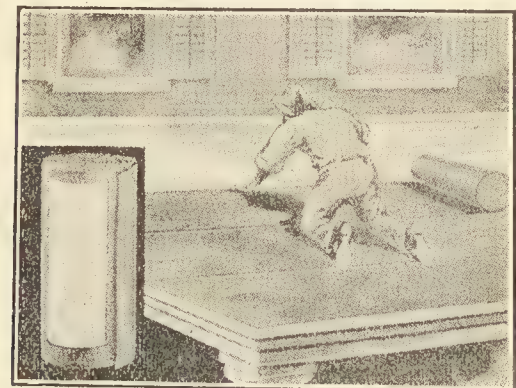
Garage, Church road and City avenue, Philadelphia, \$2,600. Architect, private plans. Owner, Green Hill farms, H. P. Wright, Manager, Sixty-fourth and City Line, Philadelphia. Stone, 2 stories, 26x26 feet, tile roof, hot water heating, electric lighting. Contract awarded to Alfred James, Bala, Pa.

Factory add., Tacony, Philadelphia, \$1,500. Architect, private plans. Owners, E. H. Fittler Company, Tacony, Philadelphia. Brick, 1 story, 24x51 feet, slag roof. Contract awarded to C. A. Collier, 1370 Gillingham street, Philadelphia.

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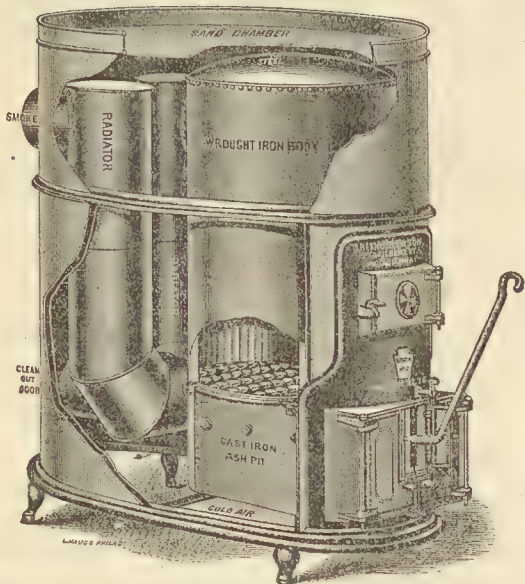
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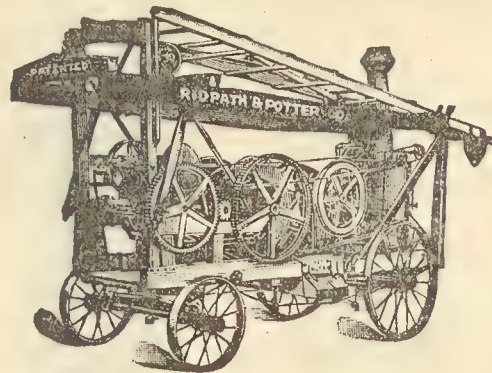
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PENNSYLVANIA Construction News

Y. M. C. A., Waynesboro, Pa. Architects, Shattuck & Hussey, Chicago, Ill. Owner, Y. M. C. A., care of E. Stoner, Waynesboro, Pa. Brick, steel and concrete, 4 stories, 75x120 feet, tile and composition roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Architects taking bids, due December 18th. In addition to those previously reported, Berry-Goodwin Co., Drexel Building, Philadelphia, is figuring.

Residence, Bryn Mawr, Pa. Architect, Henry L. Reinhold, 1309 Walnut street, Philadelphia. Owner, E. E. Rambo, 1920 North Camac street, Philadelphia. Brick and plaster, 3 stories, 35x40 feet, shingle roof, hot water heating, electric lighting. Architect taking bids, due December 14th. The following are figuring: A. L. Fretz & Son, 1222 Chancellor st., Phila.; Chas. C. Pace, Merion, Pa.; Wolf & Dilworth, Bryn Mawr, Pa.; Gray Bros., Rosemont, Pa.; J. J. Graham, Bryn Mawr, Pa.; A. S. Sparks, Merion, Pa.; W. Harry Roberts, Newton Square, Pa.; Philip S. Davis, Bryn Mawr, Pa.; Geo. L. Croll, Rosemont, Pa.; F. H. Mahan, Ardmore, Pa.

Theatre, Scranton, Pa. Architect, Thos. W. Lamb, 644 Eighth avenue, New York City. Owner, Scranton Strand Theatre Co., Scranton, Pa. Stone and terra cotta, fire-proof, 3 stories, 63x157 feet, slag roof, steam heating, electric lighting, tile floors, metal lath, waterproofing, safety treads, metal frames and sash, iron grilles. Architect taking bids, due December 9th. Cramp & Co., Denckla Building, Philadelphia, are figuring.

Residence, Ogontz, Pa. Architects, Koelle, Spaeth & Co., Twenty-sixth and Oxford streets, Philadelphia. Owner, Henry W. Breyer, Ninth and Cumberland streets, Philadelphia. Stone and frame, 2½ stories. Plans in progress. Too early for details.

High School, Kennett Square, Pa., \$50,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, Kennett Square, Pa. Brick, 2 stories, 55x115 feet, slate roof. Plans in progress.

Sunday School, Allentown, Pa. Architect, A. A. Ritcher, Sixth and Court streets,

Reading, Pa. Owner, St. James Lutheran Church, Rev. C. K. Fegley, 724½ New street, Allentown, Pa. Stone and brick, 2½ stories, 52x70 feet, slate and tin roof, steam heating, electric lighting. Owners have received bids.

Garage, Wyomissing, Pa., \$2,500. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Koller, 320 North Fifth street, Reading, Pa. Brick, 1 story, 20x26 feet, slag roof, hot water heating, electric lighting, concrete floors. Plans in progress.

Arsenal (Add.), Harrisburg, Pa., \$56,000. Architect, C. A. Keyworth, State Capitol, Harrisburg, Pa. Owner, State of Penna., Harrisburg, Pa. Reinforced concrete, 3 stories, slag roof, steam heating, electric lighting, metal frames & sash, iron stairs and fences. Plans in progress.

Home and Residence, Jednoda, Pa., \$25,000. Architect, Geo. F. Schroeder, Weitzenhorn Bldg., Wilkes-Barre, Pa. Owner, Slavonic Catholic Union, A. K. Kozak, President, Highspire, Pa. Brick and frame, 3 stories, 40x45 feet and 34x39 feet, asbestos shingle roof, (steam heating and electric work, reserved). Architect taking bids due December 7th. C. W. Strayer & Co., Union Trust Bldg., Harrisburg, Pa., are figuring.

Capitol Bldg. (Add.), Harrisburg, Pa., \$2,500,000. Architect (probably) C. A. Keyworth, State Capitol, Harrisburg. Owner, State of Penna., Samuel R. Rambo, Supt. of Public Grounds and Buildings. Granite, 4 or 5 stories. Plans will be started about January 1st.

Boiler House (add.), Port Reading, Pa. Architect, William Hunter, Twelfth and Market streets, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets, Philadelphia. Concrete and corrugated iron, 1 story, 19x34 feet, iron roof. Owners taking bids, due December 14th. The following are figuring: W. W. Lindsay, Harrison Building; Brown-King Const. Co., Harrison Building; P. J. Hurley, 1233 Cherry street; Irwin & Leighton, 126 North Twelfth street; J. E. & A. L. Pennock, Land Title Building; Armstrong & Latta, Land Title Building; H. E. Baton, Twelfth and Sansom streets; A. L. Carhart, Hale Building; F. A. Havens Company, 845 North

LIGHTING FIXTURES

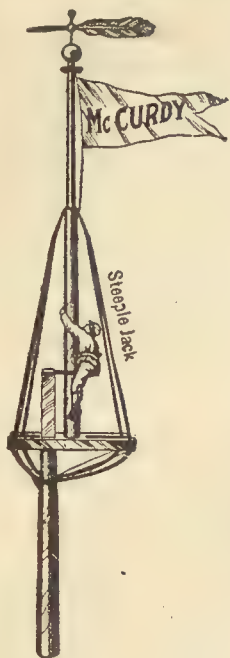
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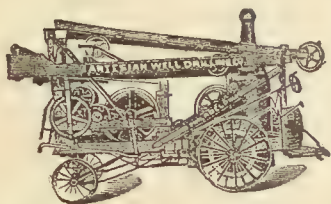
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1927 Montgomery Avenue

Philadelphia, Pa.

Nineteenth street; Enos L. Seeds, 6314 Wis-
sahickon avenue; T. C. Trafford, 1613 Sansom
street, all of Philadelphia.

Store and Hall, Christiana, Pa., \$6,000.
Architect, H. M. Bartholomew, 39 East Grant
street, Lancaster, Pa. Owner, J. R. Martin,
Jr., Christiana, Pa. Brick, 2 stories, 46x94
feet, slate and tin roof, steam heating, electric
lighting. Owner taking bids.

Residence, Manheim, Pa., \$4,500. Architect,
H. M. Bartholomew, 39 East Grant street,
Lancaster, Pa. Owner, E. P. Hostetter, Man-
heim, Pa. Brick, 2½ stories, 25x40 feet, slate
roof, hot water heating, electric lighting.
Owner taking bids.

High School, South Bethlehem, Pa., \$150,-
000. Architect, A. W. Leh, South Bethlehem,

Pa. Owners, Board of Education, Bethlehem,
Pa. Brick, stone and steel, fireproof, 3 stor-
ies, slate roof, mechanical heating and venti-
lating system, electric lighting, metal lath,
safety treads, slate blackboards. Plans in
progress.

Parish House and Rectory, Lancaster, Pa.
Architect, William C. Prichett, 416 Walnut
street, Philadelphia. Owner, St. John's Epis-
copal Church, Lancaster, Pa. Stone, 3 stories.
Plans in progress. Too early for details.

Residence, Cynwyd, Pa. Architects, Borz-
ner & Wood, 721 Walnut street, Philadelphia.
Owner, E. E. Nixon, care of architect. Hol-
low tile and plaster, 2½ stories, 26x36 feet,
shingle roof, steam heating, electric lighting.
Plans in progress. Bids in about one week.

PENNSYLVANIA

Contracts Awarded

Club House, Reading, Pa., \$3,500. Archi-
tects, Muhlenberg Bros., 511 Penn street,
Reading, Pa. Owner, Riverside Fire Co.
30x40 feet, slate roof, steam heating, elec-
tric and gas lighting. Contract awarded to
D. B. Warner, Reading, Pa.

Church (add.), Reading, Pa., \$2,000. Archi-
tect, Wm. A. Fink, 426 Franklin street,
Reading, Pa. Owner, Zion Baptist Church,
Reading, Pa. Brick, 1 story, 21x41 feet,
slag roof, steam heating, electric lighting.
Contract awarded to N. J. West, Reading,
Pa.

Connecting Corridor, Elizabethtown, Pa.,
\$3,000. Architects, Zantzinger, Borie & Me-
dary, 15th and Walnut streets, Philadelphia.
Owner, G. & A. M. Grand Lodge, Broad
and Arch streets, Philadelphia. Stone, 1
story, slate roof (heating and lighting, re-
served). Contract awarded to Pomeroy
Const. Co., 1609 Ranstead street, Philadel-
phia.

Residence (alt. and add.), Villanova, Pa.

Architects, Bissell, Sinkler & Tildon, Bai-
ley Building, Philadelphia. Owner, T. Wis-
tar Brown, Villanova, Pa. Brick, 2½ stor-
ies, 40x26 feet, shingle and slag roof (hot
air heating, electric lighting and mill work,
reserved). Contract awarded to Wolf &
Dilworth, Bryn Mawr, Pa.

Residences (2), Lemoyne, Pa., \$5,500.
Architect, T. H. Hamilton, Patriot Bldg.,
Harrisburg, Pa. Owner, H. B. Witman,
Harrisburg, Pa. Brick, 2½ stories, 17x38
feet, slate roof, steam heating, gas and elec-
tric lighting. Contract awarded to W. E.
Buschey, Lemoyne, Pa.

Garage and Conservatory, Harrisburg,
Pa., \$5,000. Architect, T. H. Hamilton, Pa-
triot Bldg., Harrisburg, Pa. Owner, A. C.
Stamm, 13th & Ruse streets, Harrisburg,
Pa. Brick, steel and concrete, 2 stories,
28x38 feet, tin and composition roof, steam
heating, electric lighting, concrete floors.
Contract awarded to E. N. Lebo, Harris-
burg, Pa.

NEW JERSEY

Construction News

Residences (2), Trenton, N. J., \$3,000.
Architect, private plans. Owner, Samuel
Hilton, Forst Richey Building, Trenton, N.
J. Cement blocks, 2 stories, 13x25 feet each,
slate and tin roof, hot air heating, gas light-
ing. Owner will sub-let all contracts.

Green House (add.), New Brunswick, N.
J., \$4,000. Architect, Geo. S. Drew, State
Capitol, Trenton, N. J. Owner, State of

N. J., Agricultural College, New Brunswick,
N. J. Brick, 1½ stories, 21x45 feet, slag
roof, steam heating, electric lighting, con-
crete floors. Plans in progress.

School, Plainfield, N. J. Architects,
Wildor & White, 50 Church street, New
York City. Owner, Board of Education,
Plainfield, N. J. Brick, fireproof, 2 stories
and basement, 85x180 feet, slag roof, elec-

tric lighting, metal lath, waterproofing, composition floors, iron grilles, safety treads (heating, reserved). Owners taking bids, due December 9th. Jas. H. Wells, Heed Building, Philadelphia, is figuring.

Theatre, State street, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton. Owner, E. Mercer Shreve Estate, Trenton, N. J. Brick, 1 story, 40x82 feet, slag roof, steam heating, electric lighting, composition floors, metal lath. Architects taking bids, due December 11th. The following are figuring: S. W. Mather & Son, Scott & Day, Burton & Burton and W. J. & J. H. Morris, all of Trenton, N. J.

Residences (2), Trenton, N. J., \$4,000. Architect, private plans. Owner, Andrew Geiger, 153 Liberty street, Trenton, N. J. Brick and frame, 2½ stories, 15x44 feet, slate roofs, hot air heating, gas lighting. Owner taking sub-bids.

Residence, Trenton, N. J., \$3,500. Architect, private plans. Owner, Frank Sweeney, Trenton, N. J. Frame, 2½ stories, 23x32 feet, tin and slate roof, hot water heating, gas and

electric lighting. Owner taking sub-bids.

Residences (6), Haddon avenue, Camden, N. J. Architect, private plans. Owner, Harry W. Bealer, Woodlyn, N. J. Brick, 2 stories, 16x54 feet each, slag roof, hot air heating, gas lighting. Owner is taking sub-bids.

Residences (5), Mt. Ephraim avenue, Camden, N. J. Architect, private plans. Owner, Harry W. Bealer, Woodlyn, N. J. Brick, 2 stories, 16x54 feet each, slag roof, hot air heating, gas lighting. Owner taking sub-bids.

Garage, Camden, N. J. Architect, private plans. Owners, New York Ship Building Company, Camden, N. J. Frame and galvanized iron, 1 story, 20x21 feet, electric lighting, concrete floors. Owner is building.

School, Plainfield, N. J. Architects, Wilder & White, 50 Church street, New York City. Owner, Board of Education, Plainfield, N. J. Brick, fireproof, 2 stories and basement, 85x180 feet, slag roof, electric lighting, metal lath, waterproofing, composition floors, iron grilles, safety treads (heating reserved). Owners have received bids.

roof, hot water heating, hardwood floors. Plans in progress.

Warehouse, Hillen and Forest streets, Baltimore, Md. Architect, Henry J. Tinley, St. Paul and Saratoga streets, Baltimore. Owners, Cronin & McDonald, Fayette and Holliday streets, Baltimore. Brick, 2 stories, 45x28 feet, slag roof, steam heating, electric lighting. Architect taking bids, due December 10th. The following are figuring: P. H. Guttman & Co., 1536 North Gay street; Joseph F. Farley & Son, 1728 East Federal street, both of Baltimore, Md.

Maryland

Contracts Awarded

Residence, Greenway, near University Parkway, Baltimore, Md., \$20,000. Architects, Archer & Allen, 1 East Lexington street, Baltimore. Owner, Miss J. R. Rogers, care of architects. Brick, 2½ stories, 27x70 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Contract awarded to W. E. Burnham, Law Building, Baltimore Md.

Residence, Edmondson avenue and Nottingham road, Baltimore, Md., \$15,000. Architect, J. R. Gerwig, 1811 Ashburton avenue, Baltimore, Md. Owner, G. C. Ruppel, 332 Park avenue, Baltimore, Md. Brick, 2½ stories, 66x26 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Contract awarded to Henry S. Rippel, 7 Clay street, Baltimore, Md.

Store Building (alts.), 407 North Howard street, Baltimore, \$5,000. Architect, Louis Levi, Munsey Building, Baltimore. Owner, A. Strouse, Equitable Building, Baltimore. Consists of new front and interior alterations, copper roof, steam heating, electric lighting. Contract awarded to H. H. Maclellan, 15 East Fayette street, Baltimore, Md.

Church, Bethesda, Md., \$5,000. Architects, Kendall & Smith, Southern Building, Washington, D. C. Owner, St. John's Bethesda Episcopal Church, Rev. Dr. Kirkpatrick. Stone, one story, 35x50 feet, slate roof, steam heating, electric lighting. Contract awarded to F. F. Roby & Bro., Alton street near Forty-fourth street, Washington, D. C.

Residence, Carlisle and Wilkins avenue, Baltimore, Md., \$7,000. Architect, Henry J. Tinley, St. Paul and Saratoga streets, Baltimore. Owner, George E. Ijams, 3302 Clifton avenue, Baltimore. Frame, 2½ stories, 28x33 feet, slate roof, steam heating, electric lighting, tile work. Contract awarded to Henry Knott, 1340 North Eden street, Baltimore, Md.

Residence, Montbello Park, Baltimore, Md., \$6,500. Architect, J. F. Gerwig, Equitable Bldg., Baltimore, Md. Owner, Mary E. Schuler, care of architect. Frame, 2½ stories, 28x28 feet, slate roof, steam heating, electric lighting, tile work. Contract awarded to P. P. Day, 163 Montbello Terrace, Baltimore, Md.

Residence, Montbello Park, Baltimore, Md., \$4,500. Architect, Henry J. Finley, St. Paul and Saratoga streets, Baltimore, Md. Owner, J. W. Burger, care of architect. Frame, 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to P. P. Day, 163 Montbello Terrace, Baltimore, Md.

Garage, Hagerstown, Md., \$10,000. Architect, W. O. Sparklin, 7 Clay street, Baltimore, Md. Owner, O. D. Sherley, Hagers-

NEW JERSEY

Contracts Awarded

Theatre (Alt. & Add.), Atlantic City, N. J., \$7,500. Architect, Louis C. Hickman, Brown's Bros. Bldg., Phila. Owner, Boardwalk Realty Co., Atlantic City, N. J. Brick, 1 story, electric lighting, metal lath, consists of interior alteration and addition. Contract awarded to H. E. Batton, 12th & Sansom streets, Phila.

Garage, Trenton, N. J., \$1,500. Architect, private plans. Owner, City of Trenton, City Hall, Trenton, N. J. Brick, 1 story, 26x65 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to Louis Levy, Trenton, N. J.

Post Office, Morristown, N. J. Architect,

Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick and stone, 2 stories, 91x82 feet, tile roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Lowest bid submitted by W. R. Titus, Paulsboro, N. J., \$93,000.

Church, 1858 South Tenth street, Camden, N. J. Architect, private plans. Owner, Tenth Street Baptist Church, Camden, N. J. Brick, 1½ stories, 32x40 feet, ruberoid roof, hot air heating, gas and electric lighting. Contract awarded to Benjamin Harvey, 1192 Haddon avenue, Camden, N. J.

MARYLAND

Construction News

School (Alt. & Add.), Gorsuch, Kennedy avenues and Tyler street, Baltimore, Md., \$25,000. Architects, Smith & May, Law Bldg., Baltimore, Md. Owner, City of Baltimore, City Hall, Baltimore, Md. Brick, 3 stories, 41x69 feet, slag roof, steam heating, electric lighting. Owners taking bids. The following are figuring: F. Decker & Son, 1209 E. Biddle street; P. J. Cushen, 218 St. Paul street; Charles Keibold & Son, 2768 W. North avenue; L. Schoenlein & Son, 2217 E. Baltimore street; Singer-Pentz Co., Equitable Bldg.; Henry S. Rippel, 7 Clay street; J. Henry Miller, Inc., Franklin & Eutaw streets; C. L. Stokhausen, Gay and Water streets; Consolidated Engineering Co., Calvert Bldg.; Edward Watters & Co., 509 N. Charles street.

Residence, Glydon, Md., \$6,000. Architect, Wm. F. Stone, Knickerbocker Bldg., Baltimore, Md. Owner, C. H. Porter, Glydon, Md. Frame, 2½ stories, 28x32 feet, slate roof, steam heating, electric lighting. Plans in progress.

Residence (Alt. & Add.), Robinson Station, Md., \$6,500. Architect, W. M. Gieske, Gunther Bldg., Baltimore, Md. Owner, Henry Keidel, 407 W. German street, Baltimore. Frame, 2½ stories, slate roof, steam

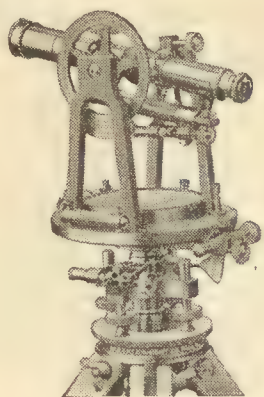
heating, electric lighting. Plans in progress.

Residence, Guilford, Md., \$30,000. Architects, Mottu & White, 324 North Charles street, Baltimore, Md. Owner, L. M. Buck, Fort avenue and Lawrence street, Baltimore, Md. Brick, 3 stories, 42x64 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Office Building (Alts.), Charles and Baltimore streets, Baltimore, \$6,000. Architect, E. L. Palmer, Roland Park, Md. Owner, The Baltimore Sun, on premises. Marble and tile floors, bronze gables, steam heating, electric lighting. Architect taking bids, Cowan Building Co., 106 W. Madison street, Baltimore, is figuring.

Residence, Hill Top Park, Md., \$5,000. Architect, private plans. Owner, C. H. Bradfield, 1109 Continental Building, Baltimore. Frame, 2½ stories, slate roof, steam heating, electric lighting. Owner will take sub bids.

Residence, Ten Hills, Md., \$7,500. Architect, Bayard Turnbull, 328 North Charles street, Baltimore, Md. Owner, Dr. J. C. Bloodgood, 904 North Charles street, Baltimore. Frame and stucco, 2½ stories, slate



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WARREN-KNIGHT COMPANY

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PHILADELPHIA, U. S. A.

town, Md. Brick and concrete, 3 stories, 54x154 feet, slag roof, hot water heating, electric lighting, concrete floors. Contract awarded to Price Concrete Construction Co., 225 St. Paul street, Baltimore, Md. Garage, 1200 McCulloh street, Baltimore,

Md., \$6,000. Architect, W. M. Gieske, Gunther Bldg., Baltimore, Md. Owners, M. E. & J. W. Hanzer, on premises. Brick, 2 stories, 24x40 feet, slag roof, electric lighting, concrete floors. Contract awarded to John McKenna.

Miscellaneous Construction News

Post Office, Glen Falls, N. Y. Architect, Oscar E. Wenderoth, Treasury Department, Washington, D. C. Owner, U. S. Government, Washington, D. C. Brick and terra cotta, 1 story, 65x104 feet, composition roof, steam heating, electric lighting, metal lath, dampproofing, iron grilles. Owners taking bids, due December 17th. The following are figuring: J. E. & A. L. Pennock, Land Title Building; Chas. McCaul Co., 1713 Sansom street; D. T. McCarthy, 411 Walnut street; Herman Voigt, Twenty-eighth and Thompson streets; Wm. Steele & Sons, Sixteenth and Arch streets, all of Philadelphia.

Repair Shop, Washington, D. C. Architect, private plans. Owner, Water Department, Washington, D. C. Brick, 1 story, 36x150 feet, slag roof, electric lighting. Owners taking bids, due December 16th. Berry-Goodwin Co., Drexel Building, Philadelphia, is figuring.

Hotel (Alts.), New Castle, Del., \$1,500. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, John B. Truitt, New Castle, Del. Brick, 2 stories, 36x70 feet, steam heating, electric lighting. Plans in progress.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Atwater Kent (O), 4937 Stenton avenue. George & Borst (C), 277 South Eleventh street. Cost, \$25,000. Manufacturing, brick, concrete and steel, 1 story, 120x126 feet, 4937 Stenton avenue.

J. H. McClatchy (O), Land Title Building. Cost, \$6,000. Residence, stone, 3 stories, 27x34 feet, Fifty-third and Overbrook avenue.

Geo. W. Shissler (O), 2300 E. Eleventh street. Cost, \$25,500. Seventeen dwellings, brick, 2 stories, 14x30 feet. Cost, \$13,600. Seven stores and dwellings. Cost, \$2,000. One dwelling, 2617 S. Seventh street.

Jos. Safer (O), Seventy-eighth and Avenue D. C. S. Kates (C), Seventy-ninth and Brewster avenue. Cost, \$2,000. Dwelling, stone, 2 stories, 16x43 feet, Seventy-seventh and Buist avenue.

J. W. Mitchell (O), Forty-sixth and Market streets. Cost, \$19,200. Eight dwellings, stone, 2 stories, 16x34 feet. Cost, \$2,600. One dwelling. Cost, \$18,400. Cost, \$2,500. One dwelling. Cost, \$8,888. Two dwellings. Cost, \$36,000. Twelve dwellings, Sixty-third and Sansom streets.

J. J. Hurley (O), 503 E. Monastery avenue. Cost, \$3,600. Two dwellings, brick, 2 stories, 14x33 feet. Cost, \$2,500. Store and dwelling, Jamestown street and Cresson avenue.

Welsh & Naulty (O), Third and Pine

streets. Louis Cohen (C), Christian street. Cost, \$3,250. Dwelling, brick, 2 stories, 25x40 feet, 204 Stampers street.

Keller Bros. (O), 480 Harmon Road. Cost, \$7,500. Five dwellings, brick, 2 stories, 14x30 feet, Gates and Silverwood streets.

M. W. Jones (O), 171 Maplewood avenue. Chas. Johnson (C), 5701 Boyer street. Cost, \$8,200. Dwelling, stone, 3 stories, 24x43 feet, 171 Maplewood avenue.

P. Kohn (O), 1923 S. 10th street. Cost, \$4,400. Two dwellings, brick, 2 stories, 16x40 feet, Marsden & Benner streets.

J. J. Greenway (O), 8007 Cheltenham avenue. Cost, \$1,800. Dwelling, stone, 2 stories, 16x42 feet, 8007 Cheltenham avenue.

Fourth Street Meeting House (O), Second and Arch streets. R. C. Ballinger Co. (C), 218 N. Thirteenth street. Cost, \$56,000. Book store and apartments, brick, 5 stories, 44x86 feet, Third and Arch streets.

Manheim Laundry Co. (O), 5344 Germantown avenue. Burd P. Evans Co., Thirteenth and Wallace streets. Cost, \$6,000. Garage, brick, 2 stories, 32x52 feet, 5344 Germantown avenue.

J. J. Lifter (O), 216 Lombard street. Harrison C. Rea Co. (C), 1027 Wood street. Cost, \$34,000. Manufacturing, brick, 3 stories, 70x140 feet, 216 Lombard street.

Mark Haller (O), 2123 S. 4th street. Cost,

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O. M. WEBER CO., Inc.
North Wales, Pa.

Diamond Flexible Metal Weather Strip



Geo. R. C. Johnston, Eastern Sales Representative
371 Drexel Bld., Phila., Pa.

\$2,500. Store and dwelling, brick, 2 stories, 16x42 feet, Fourth & Porter streets. Cost, \$5,000. Store and dwelling. Cost, \$12,600. Seven dwellings.

Clark & Craighead (O), 2900 N. 24th st. Cost, \$2,200. Two dwellings, brick, 2 stories, 15x42 feet. Cost, \$32,000. Sixteen dwellings, Sixteenth & Ruscomb streets.

Schreiber & Steinhauser (O), 5424 N. Fifth street. Cost, \$12,000. Six dwellings, brick, 2 stories, 15x30 feet, Fifth and Somerville streets.

John C. McAvoy (O), Cynwyd, Pa. R. A. McConaghy (C), Bala, Pa. Cost, \$7,000. Residence, stone, 3 stories, 39x24 feet, 52nd and Overbrook avenue.

F. & L. Davis (O), Thirteenth and Nedro avenue. Cost, \$2,000. Dwelling, brick, 2 stories, 16x42 feet, Mervine & Nedro streets.

The One That Gets the Trade.

The constant dropping water wears away the hardest stone,

The constant chewing bulldog masticates the toughest bone,

The constant cooing lover takes away the blushing maid,

And the constant advertiser is the one that takes the trade.

Some big guns are smooth bores.—Ex.

Alterations and Additions

Ed. H. Titler Co. (O), Tacony, Phila. C. A. Collier (C), 1370 Gillingham street. Cost, \$1,450. Factory, brick, 24x51 feet, Tacony, Phila.

Edward Folding Box Co. (O), 27 North Sixth street. Stewart Bros. (C), 2526 North Orkney street. Cost, \$550. Tank, 27 North Sixth street.

Mr. Cadus (O), 341 Market street. A. P. Fraim (C), 319 Market street. Cost, \$350. Store, Fourth and Market streets.

Emil Streich (O), Filbert and Redfield streets. C. A. Legates (C), 322 North Gross street. Cost, \$500. Dwelling, brick, 2 stories, 6x15 feet, Filbert and Redfield streets.

A. Paul Oliver (O), 600 North Broad street. Federal Sign Co. (C), 1518 Sansom street. Cost, \$500. Sign, 600 North Broad street.

Wm. H. Mercer (O), 802 North Twelfth street. J. F. Walter (C), 1233 Olive street. Cost, \$450. Store and dwelling, 802 North Twelfth street.

C. C. Smith (O), Forty-sixth and Aspen streets. W. Stone, 4622 Lancaster avenue. Cost, \$1,200, saloon and dwelling, 46th and Aspen streets.

A. Kane (O), 218 Wood street. J. Welsh (C), 138 N. 17th street. Cost, \$650. Store and dwelling, 248 Morris street.

S. Hales (O), 814 Boulevard street. Cost, \$700. Garage, 814 Boulevard.

G. V. Handwark (O), Fourth & Tabor Road. W. H. Ashton (C), 5618 N. Second street. Cost, \$700. Factory, 5527 N. Second street.

P. Christaldi (O), 5442 Market street. J. C. Fernald (C), 5533 Wyalusing avenue. Cost, \$1,200. Store and dwelling, 5138 Lansdowne avenue.

Girard Trust Co. (O), Broad and Chestnut sts. J. Morris Daniels (C), 252 S. Juniper street. Cost, \$670. Storage, 719 Beach street.

Penna. Trust Co. (O), 517 Chestnut street. John Duncan Co. (C), 920 Walnut street. Cost, \$1,500. Store and dwelling, 1717 S. Eighth street. Cost, \$500. 1715 S. Eighth street.

Franklinville Ice Co. (O), Sixth & Glenwood ave. Herman Voigt (C), 26th and Thompson streets. Cost, \$1,200. Ice plant, Sixth and Glenwood avenue.

T. B. Smith Republican Club (O), 22nd and Glenwood avenue. H. E. Baton (C), 12th & Sansom streets. Cost, \$2,300. Club House, 2 stories, brick, 19x25 feet, 2341 N. Twenty-second street.

Mechanical Refining Co. (O), 864 North Franklin street. Cost, \$800. Storage, iron and frame, 1 story, 40x80 feet, 864 North Franklin street.

E. Barrick (O), 3807 Spruce street. J. F. Loudon (C), 104 South Fortieth street. Cost, \$700. Dwelling, 4002 Chestnut street.

J. Donahue (O), 12 South Fifteenth street. Herman Voigt (C), Twenty-eighth and Thompson streets. Cost, \$800. Saloon, new bulk, 12 South Fifteenth street.

F. S. Osborn (O), 1462 Cherry street. D. Henwood (C), 1509 Wood street. Cost, \$780. Store, new bulk, 211 North Fifteenth street.

Richard Bauer (O), Eighth and Tree streets. A. Donaldson (C), 2237 Oakford street. Cost, \$3,000. Dwelling, store, brick, 2 stories, 10x15 feet, Twenty-second and Jackson streets.

D. F. McAllister (O), 1343 S. Twentieth street. G. E. Hill (C), 2248 Wharton street. Cost, \$500. Stable, 2 stories, brick, 1341 S. Opal street.

Geo. J. Roesch (O), 216 N. Third-third street. C. H. Kohn & Co. (C), 1614 Cherry street. Cost, \$3,000. Stable, brick, 63x47 feet, 1 story, 1030 N. Orianna avenue.

C. R. Williams (O), 3708 Chestnut street. Harry Gibson (C), 4041 Spring Garden street. Cost, \$1,200. Garage, brick, 2 stories, 24x24 feet, 3708 Chestnut street.

Geo. A. Huhn & Sons (O), 1418 Walnut street. Geo. F. Payne & Co. (C), 401 S. Juniper street. Cost, \$10,500. Banking offices, No. 1418 Walnut street.

Covernette & Co. (O), 219 Quarry street. J. T. Glinn (C), 524 Walnut street. Cost, \$810. Manufacturing, 219 Quarry street.

J. M. Kennedy (O), 1001 Chestnut street. B. Shestack (C), 528 Reed street. Cost, \$5,000. Garage, brick, 1 story, 38x124 feet, Appletree and Alden streets.

Mrs. Harmon (O), 237 Buttonwood street. Herman Voigt (C), 28th and Thompson streets. Cost, \$1,500. Manufacturing, fire repairs, 237 Buttonwood street.

Walter L. Trainer (O), 12th & 65th avenue. Harry Harting (C), 137 Duval street. Cost, \$700. Garage, stone and frame, 1 story, 22x21 feet, 12th avenue and 65th street.

W. Percival Johnson (O), 4039 Lancaster avenue. Cost, \$650. Garage, 1 story, brick, 13x19 feet, 6140 Nassau street.

R. Gibson (O), 45th & Locust streets. B. Shestack (C), 528 Reed street. Cost, \$975. Store and dwelling, brick, 1 story, 14x20 feet, Forty-fifth and Locust streets.

John Brewster (O), Upper Darby, Pa. F. I. Wintz (C), 1618 N. Twenty-seventh street. Cost, \$2,220. Store and dwelling, brick, 18x32 feet, 2 stories, 4425 Lancaster avenue.

S. W. Evans & Sons (O), Paul & Meadow streets. Chicago Bridge & Iron Works (C), Chicago, Ill. Cost, \$3,000. Tank, Paul and Meadow streets.

Mrs. C. Block (O), Broad & Wallace streets. Model Sign Works (C), 9th & Venango streets. Cost, \$1,100. Sign, 932 Market street.

Board of Education (O), Land Title Bldg. Mitchell Bros. (C), 2125 Race street. Cost, \$1,192. School, new wall, 319 Callowhill street.

Querns Bros. (O), 1914 N. Fourth street. Cost, \$3,000. Factory.

Felton Sibley Co. (O), 136 N. Fourth street. Cost, \$950. Storage, 136 N. Fourth street.

Midnight Mission (O), 919 Locust street. J. D. Fisher (C), 5718 Market street. Cost, \$500. Laundry, brick, 1 story, 10x12 feet, 919 Locust street.

Wells Fargo Co. (O), 822 Chestnut street. Edw. Fay & Sons (C), 2 S. Mole street. Cost, \$6,500. Alteration and addition, 24th and Ranstead streets.

Walter Crowder Coal Co. (O), 5717 Germantown avenue. W. C. Wright (C), 22 Harvey street. Cost, \$4,400. Coal yard alteration and addition, 5717 Germantown avenue.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 30, 1914.—Sealed proposals will be opened in this office at 3 P. M., January 15, 1915, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. Post Office at Gary, Ind. The building is two stories and basement, with a ground area of 9,400 square feet; stone facing; composition roof; fireproof construction. Drawings and specifications may be obtained from the custodian of site at Gary, Ind., or at this office, in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

THE EASY WAY.

Scientists and philosophers have agreed there is so royal road to riches, fame or happiness.

Thinking men and women have discovered an easy way. The road leading to the desired goals was known to the ancients, the Goths, the Vandals, the cavemen, the cliff dwellers. It was known but it was not the beaten path.

During the intervening centuries certain sign posts were established. Benjamin Franklin set up a number of them and school children copied them times without number in the bygone years, but it was in after years they understood the significance of the combinations of words they had "learned by heart."

When you sum up all the maxims, proverbs and wise saws of all times they point to the easy way to a life of satisfaction and contentment in business or out of business.

The "easy way" to get along is to work hard, to work intelligently, to do that which tends for the constructive order of business rather than for the destructive order.

Business is an exacting master. Business, also, is a submissive servant. You will be master of your business or servant to it, and you may choose in which capacity you will serve. The position is elective.

Pat, the well-known Irishman from the Emerald Isle, has a way of expressing himself that appeals to everybody. He claims: "The only easy way to make a living is to work like the devil for it."—Exchange.

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GERMAN REPORT ON ART DESTRUCTION

In a casual inspection, the damage done at Louvain by the invading Germans will seem much greater than the actuality, so the statement of the commission issued by the German Governor-General of Brussels assures the world. The duty of protecting Belgian art treasures was imposed upon this body of men, and their report traverses the ground passed over by the conquering forces, and a careful estimation of the ensuing damage is attempted. Church after church in Louvain, the town hall, the library, and whatever noteworthy possessions the city has or had were examined, and, so says the report, "all lovers of art will rejoice to hear that, with the exception of the library, not only practically everything has been saved, but, barring the buildings themselves, everything is in faultless condition." In several papers this report may be read, and it continues in this vein:

"All these art treasures have been gathered into the town hall, and are under the strictest surveillance of the Commandant."

"As regards the buildings, the town hall is entirely untouched. The Church of St. Peter shows serious injuries of the roof and slight holes in the vaulted ceiling; St. Michael's Church, with its magnificent baroque facade; St. Jacob's Church, with its fine sacristy, and the well-known Chapel of St. Hubert, and the Church of St. Gertrude, with one of the most beautiful late-Gothic choir stalls in Belgium, have not sustained the slightest damage. The facade of the beautiful library is seriously damaged, but can beyond doubt be restored."

"One-sixth of the city has been entirely destroyed. This comprises the whole of the railroad street, the buildings on the Place du Peuple, and the houses around the town hall and the Church of St. Peter. The last-named houses were purposely dynamited by our brave miners, hastily summoned by the Commandant, in order to prevent the town hall from catching fire."

"I repeat that all art treasures and church possessions have been saved. This is due mainly to the efforts of Lieutenant Thelemann, Councilor in the Railroad Ministry, who, together with a subaltern officer, a student of art history, saved the contents of St. Peter's Church, whose upper part was in flames."

"The wonderful paintings of Dierick Bouts, 'The Last Supper' and the 'Martyrdom of St. Erasmus,' have not sustained the least injury. The buildings destroyed, from which shots fell, were homes of well-to-do burghers, but without artistic value."

"In Liege we visited all the churches and art collections. The Church of St. Jacob, a magnificent late-Gothic edifice, with its handsomely painted, groined vaulting, and its gorgeous decoration recalling the Moresque style, has remained untouched, and it is especially gratifying to find that the stained glass windows, among the finest in the world, have been preserved."

"The same is also the case with all the other churches—St. Paul's, St. Martin's, the Church of the Holy Cross, St. John's, St. Denis', and whatever there is of smaller churches and chapels. In St. Paul's a projectile damaged a window casement very slightly, cutting also a hardly perceptible hole in a modern pane of glass; none of the incomparable Renaissance windows of the church shows, as mentioned before, the slightest trace of destruction."

"The imposing treasury of St. Paul's, with its famous golden expiatory gift of Charles the Bold, donated after the destruction of Liege in 1468, and the important Gothic reliquary of St. Lambert rest untouched in their chest. All the museums of Liege, foremost among them the Musée d'Ansembourg, which we inspected under the leadership of its director, are in precisely the same condition as before the war. All necessary instructions, with a view to guarding against theft, have been given."

"On our way back we stopped, in spite of a heavy downpour, at Huy. There we were mainly interested in the Church of Notre Dame, with its beautiful Bethlehem portal in early Gothic style, and the handsome rose window. The four reliquary chests formerly in the church treasury had been, according to the statements of the priests, sent to Antwerp."

A German article answering the world's protest against the destruction of art is called "We Barbarians and the Cathedral at Reims." Its author is Prof. Richard Hamann, and as a protest against the charge of Germany's insensibility to the charms of French art he tells in the "Frankfurter Zeitung" (translated by the New York "Evening Post") of some of the German archaeologists and art historians who are under its spell:

"A young scholar, Ernest Gall, already known as one of the best authorities on the subject, has found skilful expression for the role of Normandy as the progenitor of Gothic art. He is now either being trained for military service against France or is already in the field. Wilhelm Pinder, the editor of the 'Deutsche Dome und der Deutsche Barock,' has shown in two authoritative treatises how much the rhythm of Norman art has influenced his style. He is now an officer in the field. The foremost student of French miniatures, Count Vitzthum, was on the point of writing a history of medieval plastic art, including that of France, when called to his colors. None of the many students who today busy themselves with the medieval art of Germany entered upon their work without first casting a glance at the monuments of France and exploring the land of Gothic art. This autumn there were to have appeared, as a basis for a new edition of the 'Denkmaler, deutscher Kunst,' 4,000 views of French monuments of the Middle Ages. One of the scholars who accomplished this labor, amid great

difficulties and even dangers—owing to the hostility of chauvinistic natives—was Dr. Jantzen, privat-docent at Halle. He is now likewise in the field, and is perhaps trembling, not only for the statues of the great cathedrals, but for every stone of the village churches confided to his care, churches so important to us for the study of the beginnings of Gothic art, and which certainly are more exposed to destruction than the great cathedrals."

Other stories that perhaps call for further authentication also show the spell that French art casts upon the Fatherland. The "Matin" (Paris) printed the charge of the Baroness de Baye that her chateau was plundered by the Crown Prince Frederick Wilhelm of some of its choicest art treasures. These are described by an English acquaintance of the Baroness as "one of the most important collections of art in private hands in Europe." This writer, Mr. Boyd Dawkins, says in the Manchester "Guardian:"

"It would be incredible were it not backed by her name. Her story is this: The Crown Prince spent two days during the battle of the Marne in the Chateau de Baye, and under his orders the glass cases in the museum were broken open and a selection made of the most valuable works of art, ranging from coins, jewels, gold and silver plate, to tapestry, pictures and furniture, and including gifts from the Czar and Czarina. These were packed up and carried off, with the exception of a few cases left behind in the hurry of the German retreat. He himself, before leaving, trampled on the pictures of the Czar and Czarina that were in the chapel. This act of low brigandage follows close on the outrage by German officers in the Brussels Museum. They took by force the keys of the cases out of the pocket of the director and stole old lace and other works of art exhibited to the public. The unfortunate victim was ultimately packed off to Antwerp, where he arrived safely, but without money, which had been taken en route by German soldiers."

"Neither of these outrages can be excused on the ground of their being acts of war. Both show, equally with Louvain and Reims, the depths to which German civilization has been degraded by the Hohenzollerns and the military caste. The Crown Prince has stained the honor of his house by acting like the lowest camp follower 'out for booty,' and has identified himself with the wrongs inflicted by the Imperial troops elsewhere on non-combatants."

"When the inevitable reckoning comes, it will be our duty to see that the Crown Prince and his officers be made to return their plunder, and that the whole damage be made good at the expense of the German Government."

Speaking of Nuts.

Mrs. Murphy had named her baby Hazel. Pat objected. "With all the saints in the calendar why do you name the little one after a nut?"

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Irving Dillon.....Editor

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Editorial Comment

Frank A. Fall has a little sermon in the Detroit Free Press that should be read and re-read and then read again by the young man who is ambitious to "make good." It gives in a few bold and graphic touches the underlying reasons accounting for the success of the man who has heart in his work and for the failure of the chap whose interest is limited to the size of his pay envelope. Both types exist everywhere. You can find them in the shop, in the drafting room, in the business office and out on the job. The fellow with heart in his work usually moves on to something better. His diligence suggests him as the man next in line when there is an opportunity to make a promotion, and he is moved up simply because having shown his devotion to the interests of his employer in the lower grade. There is a feeling of confidence that he may be depended upon to do the same in a grade higher. The other chap, who shirks when he can, evades everything but his charted duties and depends upon log-rolling and external influences to put him into something better seldom "arrives." Either he stays on in the same old subordinate grind or quits in a huff and floats about from shop to shop until his status becomes little better than that of an extra hand. Read what Mr. Fall has to say of the two types of workmen in the little homely referred to at the head of this article:

"Fifty-dollar-a-month men are a drug on the market, while fifty-dollar-a-day men are not to be found anywhere.

"Why is it? Why this great army of mediocre workers and this pitiful scarcity of men with energy, brains and initiative?

"One reason is that the dollar-a-day worker is too fond of saying, 'Aw, I wasn't paid to do that.' He continually sidesteps opportunities for advancement which come to him disguised as extra work.

"I was not paid to do that,' he says, 'and I'll not do it.'

"Very well,' says the employer, 'two can play at that game. If you'll do only exactly what I pay you for, I'll pay you for exactly what you do, and not a cent more.'

"There is no future for such an employe in any business.

"The wise worker sings a different song altogether.

"I may not be paid to do that,' he says, 'but if the boss will let me do it, I'll take the chance on getting the extra pay for it in due time. Meanwhile, I'll be learning something more about the business.'

"Watch for the workman who is so interested in his job, that he stays after hours to work out some scheme he has devised in connection with his work. He may not get pay for the overtime. But his work is bound

to show the extra punch, and soon or late his pay envelope must respond.

"When the plant gets too big for one man to manage there's going to be a new position looking for a man, and the overtime worker will have the first call, without a doubt.

"So it behooves every worker, in whatever post of responsibility, to study his work. Analyze it, puzzle over it, try to improve its methods and its results.

"Every boss is looking for help from the worker who can devise a newer, better way of performing an old task; who can cut out extra motions and thus help to bring down the cost of production.

"But no boss has any use for the worker who complains; who always lugs a grievance around with him; who bewails and bemoans and sheds gloom generally."

We know a little army of men who need just this vein of preaching. Heed it, yes, but will they heed it? It's a wise man who in the present era of trade unions and flippant ideals is able to recognize what is good for him.

The New York Real Estate Record is authority for the statement that a sprinkler has at last been invented which possesses the ability to automatically shut off the supply of water once the fire which engaged its attention has been extinguished. If this statement is true, and we have no reason to doubt that it is, the sprinkler interests have cause to sound a note of jubilation. Among the chief objections to the sprinkler apparatus have been the tendency to freeze up under certain conditions; together with a disposition to completely flood the building and its contents after the fire danger had passed. The Real Estate Record's account of the new device covers the situation so clearly that we quote it entire.

"Something like \$75,000,000 a year," says the Record, "is paid by the insurance companies for losses caused by water flowing from sprinkler systems after these have extinguished the fires which set them going, according to Fire Prevention News. But a sprinkler head that automatically shuts itself off after the fire has been extinguished has been invented. That the sprinkler system affords the most efficient protection against fire ever devised is not contestable. In New York, in fact, its installation in factory and loft buildings is compulsory. There is not a case on record of a fire getting beyond the control where sprinklers were in use and were not prevented from operating by untoward causes.

Usually they extinguish the blaze before it has had a chance to do much damage—few fires start that could not be put out with a pint of water if applied early enough—but the stream flowing from them in a heavy down-

pour continues necessarily until it has been shut off, and in the great majority of cases considerable time must elapse before this can be done. The result is the flooding of the building and destruction of the merchandise or almost irreparable damage done to the machinery in it.

Another serious drawback to the sprinklers at present in use is that the sprinkler heads once started are useless until they have been put together again, so that after each operation they have to be replaced, which involves expense to the owners of buildings.

The most common sprinkling device is closed in some form or other by fusible metal in such a way that when the temperature at which it is designed to melt is reached the water begins the spray. Owing to the tendency of heat to rise and spread along the ceiling, sprinkler heads remote from the place of origin of the fire frequently are set off. All continue to flood the floor, although the jet from a single head may have sufficed to put out the fire.

How to overcome these serious defects of an otherwise admirable and in any case indispensable fire protective system is a problem that has exercised engineers and inventors not only in the United States, but in Europe. This problem has been scientifically and most effectively solved by a thermostatic head devised to throw water at any predetermined temperature. It continues open until the fire is extinguished and the temperature falls to a safe point, say 140 degrees, when it closes automatically, thus obviating any further waste of water and consequent damage. Should the fire revive, the sprinkler head promptly opens up again, and it will repeat this operation indefinitely. So simple is its construction that it is practically impossible for it to get out of order.

The invention has been subjected to the most exhaustive tests. It has never failed to perform its work with scientific efficiency. It has the added advantage, we are informed, of costing no more than any sprinkler heads heretofore in use."

This device would seem to remove the last legitimate objection to the sprinkler and should result in the installation of this class of fire-fighting apparatus in hundreds of buildings in which, for reasons clearly indicated in the sections quoted, their installation has not heretofore been regarded as practicable.

The optimistic note pervades a survey of conditions in the building trades field recently undertaken by the American Contractor.

Rarely, if ever, has there been a time when the future in the building industry has been so difficult to scan as during the last few weeks and months, says the American Contractor. It continues:

"Rarely, if ever, have the prospects been so tantalizing, now promising a splendid expansion, now shadowed by the darkest clouds of incredulity. Rarely, if ever, has the inter-

est in this question been so keen among architects, engineers, contractors and builders.

"If architects and contractors are the more directly interested a vastly larger class of the American people is vitally concerned. For there is in the country no industry, save agriculture in its entirety, that equals in importance that of construction work. Building permits issued in New York city this year will be about \$150,000,000. At the same average throughout the country the total building of the country would amount to about \$3,000,000,000. The building permits in Chicago for the year will reach about \$90,000,000. On that basis the total for the country would be \$4,500,000,000. The active work in Philadelphia in 1914 will total somewhere near \$40,000,000. At a corresponding rate the building for the entire country would reach close to \$3,000,000,000.

"The per capita construction work in the rural districts is doubtless less than in the towns and cities, but the majority of the American people now live in towns and cities and the growth of the smaller municipalities in the great majority of instances equals or exceeds that of the larger cities. It would perhaps be extremely conservative to estimate the total building of the country in excess of \$2,000,000,000 annually, or approximately \$100 for each family.

"In its final analysis most of the building cost consists of labor. And, remembering that the average family income throughout the country is scarcely \$500, the building industry looms up as of commanding importance, a degree of importance not generally appreciated. It represents about 20 per cent. of the total expenditures of the people.

"Like all other branches of human effort, it is involved more or less at present in the general business perplexity. Yet it is at least semi-independent, and does not ebb and flow in exact rhythm with general conditions. It possesses to a considerable degree an initiative of its own, but only so far as it is free from financial dependence. The one great cloud that has hovered over the American nation during the last several months has been financial in its character. There have been other contributing elements to the slowing down of business, and some of them no doubt important, but in recent years large American borrowers had availed themselves more and more of the plethoric European money bags, borrowing there in huge and ever increasing amounts, year after year. When the chill of war went through the financial world the European purse strings tightened and those large American borrowers, who crossed the seas for their requirements, were 'up against it.'

"Another even more serious consideration was the large holdings of American securities abroad in consequence of the borrowing. To prevent the dumping of these securities on this side, and the consequent draining of our gold, the Stock Exchanges had to close. Additional unsettlement came, pending the in-

auguration of the new banking system. It is little wonder that the bankers 'sat tight' and waited. But those plunges have been taken and are now things of the past. It is of the future that the building interests are now the more vitally concerned. What of the future?

"The American Contractor has taken especial pains during the last few days to sound the temper of the building trade in all parts of the country. A large number of architects, contractors, builders, bankers and others have been interviewed and their best judgment as to the outlook has been obtained. These judgments may be summarized as most cheering. The spirit of optimism is reasserting itself in all parts of the country, and the way seems to be paved for greater activity.

"Looking to general conditions, the returning financial confidence is no doubt of prime importance. The stock exchanges are gradually reassuming their normal activities. The fear of the foreign dumping of American securities is in part dispelled. And well it may be. The new banking system insures an adequate supply of currency for domestic needs, elastic enough to suit all conditions of trade. And should the sale of foreign-held securities again increase sufficiently to endanger the gold reserves, it would be as simple a matter as before to close the stock exchanges again. There would be in that measure no reflection upon the domestic financial situation. It would be merely a precaution to retain our gold."

The following notice has gone out to members of Philadelphia Chapter of A. I. A. and the T-Square Club touching the matter of the forthcoming Twenty-first Architectural Exhibition to be held at the Art Club from April 11th to May 2nd, 1914. The Exhibition Board consists of J. Gilbert McIlvaine, Chairman; Herman L. Duhring, Jr., E. Perot Bissell, Arthur I. Meigs, Geo. Howe, Geo. H. Bickley and Edmund B. Gilchrist.

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To the Members of the Philadelphia Chapter A. I. A. and T Square Club:

Gentlemen: Your Exhibition Board begs to announce that the Twenty-first Annual Exhibition will be held in the Galleries of the Art Club, at Broad and Chancellor Streets, from April 11 to May 2.

Architectural Exhibitions in general are aimed, in a double-barreled way, at Architects, and at the public. The exhibition which was held in the past at the Academy of Fine Arts is now to be held in the galleries of the Art Club, and owing to this great reduction in space, the opportunity is presented to produce an exhibition of great value to the Architects. We feel this to be the true way of interesting the public.

It would seem that an architect would have more interest in what his fellow practitioners were about to do, how they proposed to do it, and their method of presenting it to their clients, than in looking at numerous photographs of executed work, all of which they had either seen or were about to see in the magazines.

Therefore, it is proposed to treat the coming exhibition from the Architectural and from the decorative standpoint, and most of all to make quality and excellence the important factor.

It is a small gallery and your Board expects to make it an honor to get a subject accepted.

Large scale renderings in color, monotone or black and white, rather than photographs, are particularly solicited, and big stretchers covered with innumerable "eight by ten" photographs will not be hung. When accompanied by plans, they should be presented in such form that they harmonize with the subject they explain, and Architects are urged to use the same study in the preparation of their

exhibits as they would in the preparation of their plans.

To summarize, the Board feels that a very small gallery gives an opportunity for a very select exhibition; that an exhibition that can be seen comfortably in a half an hour is desirable; and that to achieve any of the objects set forth above, the co-operation, interest, and zeal of the Architects and Draughtsmen to whom this circular is sent, is absolutely necessary.

Very truly yours,
JOHN GILBERT McILVAINE,
Chairman Exhibition Board.

DESTRUCTION OF PRICELESS STONE.

In all history there has never been a war so destructive, not only of human life, but also of the work of man's hands, as the present one which is devastating Europe. Entire cities have fallen from shells and fire, and some of the finest buildings that have come down to us from mediaeval times are now no more than heaps of ruins. The whole world mourns the loss of magnificent examples of masonry and stone carving that can never be replaced. When the war is over, and when the nations have recovered from financial and business disturbance, there is bound to be an enormous amount of building to replace the structures that have fallen, even though some of the great edifices can never rise from their ashes.

The greatest regret throughout the world, says Stone, has been expressed over the fate of the wonderful Cathedral of Rheims. This has everywhere been held as one of the most magnificent examples of Gothic architecture anywhere in existence. It was at first reported that this was totally destroyed, but now it is known that the principal loss was the roof, the interior and the fine woodwork. Of course there are scars from cannon shots on the exterior walls, and many of the quaint statues that adorn the facade have been chipped and mutilated. But the Gothic architects built for all time, and with honest stone masonry. It would take more than a bombardment with high-power modern shells to shake their walls so as to impair their integrity. One of the particular glories of the Rheims Cathedral was its marvelous system of flying buttresses, illustrated herewith. These are almost lace-like in their delicacy. There has been no indication in the despatches as to how much these suffered under the cannon fire, but they could hardly have escaped in a bombardment that totally destroyed the roof.

The entire progress of the war in Belgium and France has been through a region dotted with famous and beautiful examples of stonework, and many of them have fallen. The loss at Louvain is deplorable in the destruction of the priceless library, although the building itself was not especially notable. The magnificent Hotel de Ville, another Gothic gem, escaped, and it is believed that the damage done to the exquisite Cathedral of St.

Pierre is not total. This edifice has the most profuse and elaborate ornamentation in the way of stone carving, the facade and side walls being miracles of dainty moulding, pinnacles, crockets, bosses and other enrichments. The great stone structures of Malines, Dinant, Nancy and other quaint towns are battle-scarred, we may be sure, although full particulars are lacking as yet.

The loss of any great memorial of the past is always to be deplored for its historical associations, even if it is possible to replace it. But we cannot replace these examples of mediaeval stone work. It is not that our architects lack the genius to plan them or our artisans the skill to carve them. Conditions of life and labor are so different now that we cannot hope to duplicate them. They were constructed by men to whom religion was a direct and daily inspiration. They gave their life to the work, and received, not princely pay, but the bare necessities of existence. What is more, the work was carried on for generations and centuries, and many gave freely of their time and treasure who could never hope to see the full fruition of their devotion. Nevertheless, if we cannot build anew such structures as those that have suffered in the war, it is certain that there will not be lacking, once the struggle is over, generous contributions from all parts of the world to restore them to at least a shadow of their former glory, if this is found to be possible. We need them as an inspiration for our builders and artisans of today.

CAUSE OF PLASTER CRACKING.

A writer in a Chicago paper seeks to find cause of so many plastered ceilings cracking, and in some cases falling off, and causing more or less damage. To some extent this defect is very much lessened by the use of one or other of the patent plasters which have been introduced to take the place of the old-fashioned lime and hair mortar of our fathers. It may be true that most of the patent substitutes do not crack or break down to the extent that ordinary mortar does, but it must be borne in mind that there is a much greater expense incurred in their use, and the benefits resulting are scarcely worth the powder. One of the great defects in plastering is caused at the very beginning by the use of unseasoned joists, defective lath and careless workmanship in preparing the ceilings for the work. If joists are not dry, and the lath is nailed on improperly, one joist will shrink more than another and draw up the lath with it, which will break the bond and start fractures, which are sure to end in cracks. Then again, joists do not shrink uniformly, either as to time or dimensions, and shrinkage occurs more in one part of the joist than in another, with bad results.—"The National Builder."

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

DESIGN

The outburst of an artistic soul, tortured by the bonds of accepted precedent. A sermon—perhaps—but it is not preachy—and it will make you think! “What is ‘beauty’?” he asks. Do you know?

by F. W. FITZPATRICK

Consulting Architect, Washington, D. C. Reprinted from the Real Estate Magazine.

Yes; there is a good design and bad design, the artistic and the ugly. And that differentiation is not limited to things important and big and that we generally associate with Art, but distinguishes the most humble, aye, the trifling detail.

You expect “design” in a fine lady’s ball dress or in a grand monumental building; you hardly look for it in a coal scuttle or a telegraph pole. Yet there are attractive, yes, beautiful coal scuttles and ugly, repellant coal scuttles and ditto telegraph poles. To have either one of these attractive and beautiful it is not necessary to make them elaborate, costly, extraordinary or unserviceable. Indeed, the more thoroughly utilitarian they and all other things that may be designed are and appear to be, the better.

The great scheme is to make them beautiful in their “serviceability.” But now really what constitutes beauty, what is beauty, and how may we set about defining “design” insofar as its generally accepted meaning is concerned? One speaks of “designing” a motor or a suction pump. I am not referring to that species of design, the application of mechanical sciences, the reference or relation of one working part of a machine for instance, to another, but rather do I refer to the term in its application to clothing of mechanical or other skeletons, the garbing of matter generally, the finishing touches we may put upon most anything after the essentials for its purpose are provided.

You can’t get away from the fact that in considering “design,” in that light, or for that matter, anything else artistic, your or my judgment is altogether a matter of personal preference. Even if our training and prejudices and usual environment are much the same we may differ radically in our judgment as to what is and what is not artistic, good design and both be perfectly justified, for there are no hard and fast rules, few controlling precedents and nothing but the most fundamental, elementary basic principles upon which to work.

At law, everything is rule and precedent. If Judge Smith or Judge Jones said, sixty years ago, that such and such was the proper caper, he based his opinion of the rights in a comparatively new situation upon what had been decided forty years before anent something that, at least, resembled that case. And every judge since then has founded his finding, his opinion upon the precedent established by the aforesaid Judge Smith or Judge

Jones. And it has become law and has been written so. Law is easy. You must dig until you find enough rulings that fit your case and whether you’re right or wrong—equity be hanged!—if the other lawyer hasn’t found sufficient rulings to counterbalance the results of your research, why, you’re all right.

Not so in the field artistic, in *Design*. Pick out any three men as judges in the matter of a design for a building, a dress, a stage scene, anything artified. Suppose they are able, bright, scholarly men of about equal attainments and that they go at the matter with equal enthusiasm and interest. The chances are about one in a thousand that they’ll agree even upon the major and salient points. Personal preference, different points of view, temperament, all those things cut so much figure. Practically there is no such thing as scientific criticism. Even one’s digestion cuts a figure. What will please you today may, on account of some freak of that digestive apparatus, seem all upside down to you tomorrow, and call forth anathema from you.

A grave responsibility rests upon our shoulders, the men who profess to do artistic things, the designers, the architects, the painters, the musicians, the makers of fashions, all who are supposed to “design.” Naturally the public looks to us as leaders. Are we so in the right sense or are we just pot-boiling hacks?

Following the Beaten Path.

Probably I shall be classed with the iconoclasts or with those beyond the pale, the heterodox, for not right here and now clamoring for an abject following of this or that school of design, this or that hide-bound scheme of design, the much-worshipped Regular, the Accepted, the Orthodox. Our architects, and in fact all our artistic people, sin, methinks, in that direction, the worship of the Fad, the aping of something of other times and climes and that is forced into commission for all purposes and at all times because, forsooth, someone they thought in authority said it was the proper caper. They have become copyists, they have choked originality, they have made cultivation subservient and secondary to mere schooling, learning certain set phrases by rote. In architecture everything has to be classic. It is inappropriate in most modern buildings, it is untruthful in construction—according to modern and necessary methods—but it’s the thing to do.

No man can go into greater rapture over a noble old Greek temple in its own settings

than can I, but, ye gods, it makes me champ at the bit to see a modern interpretation of that same Greek temple cocked on a twenty-foot lot in a busy street, doing duty as a real estate office or a tailor’s shop. And so it is with all the other arts. The schooling miscarries. It is intended to bring out what is good in the individual, to incite and to aid what there may be of genius, while in reality it stifles, stunts and destroys what little there may have been originally.

In design, and it enters into well nigh everything we do, fads and especial schools, should be relegated to their proper place, a very secondary place, and, it seems to me, the real principles should be taken out of the cupboard where they have been hidden, they should be well dusted and conspicuously placed where all of us who “design” should see them constantly.

“Art” is Applied Common Sense.

Let us study well the purpose for which a design is made, let it be a building, a dress, a street car, let us first and foremost accomplish the purpose the thing is for, in the most direct, simple and effective manner possible—that will be one of the chiefest charms and consequent beauty; never under any circumstances let us sacrifice one whit of that directness, real utility and fundamental purpose to what we may mistakenly deem “Art.” Then, if there be money to adorn that purpose let us do it with grace, sobriety and refinement. Let the adornment emphasize and accentuate the purpose of the thing; never let us try to befuddle the people into thinking that that which is under adornment is other than it really is.

Far be it from us to ever force an issue, as it were, create a condition merely as a conveyance, a medium for the “artistic” in our design. Let us saturate ourselves with beauty in our schools or elsewhere, but chiefly in observing nature, beautiful scenery, graceful animals, the glorious coloring of a sunset or a storm, and let us carefully cultivate all that is within us of refinement. Let decoration be appropriate.

Be natural, logical, direct, refined and sane and your design, whatever it is, will be beautiful.

THE VALUE OF AN ARCHITECT’S SERVICES.

Commenting on the practice (unfortunately still prevalent to a limited degree in certain quarters) of planning buildings of more or less importance without the assistance of an architect, who is, however, called in, after the planning and general design of the building has been determined, simply to “dress it up a bit,” Mr. Electus D. Litchfield writes the Evening Post, New York, as follows:

In the old days there were so many untrained and incompetent architects that it can be understood how such a course might have been adopted. But, today, with the multitude of well-trained practitioners, such a proceeding can only be explained by complete ig-

norance of the architect's methods and capabilities. For the benefit of those who are unaware of it, let me say there is no building operation or feature of a building operation upon which the architect—and, of course, I mean a capable and well-trained one, just as when one is advised to consult a lawyer, an immature law student without balance, or experience is not meant—can be consulted without advantage to the owner. To thoroughly appreciate this, one must understand the theory of modern architectural practice, the basic theory, which has been the great contribution of the Ecole des Beaux-Arts in Paris to the architecture of this country—and I may perhaps fairly say, to the architecture of the world—and that is that the plan is the fundamental thing that predetermines the success or non-success of any building or group of buildings. There may be buildings, commonplace or even unpleasing in appearance with successful plans, but a really successful building in any particular is hardly possible with an unsuccessful plan. For that reason the study of plan has become the great study of the modern architect. * * *

It is high time that those interested in buildings, for rental or for sale, be they apartments, lofts or office buildings, recognize two facts: first, that the practical planning of a building, together with an appropriate and pleasing facade, determine in a great measure its real value; and second, that it pays much better to decorate a building inside and out with brains, rather than gold leaf.

For too long have the operators been carried away with the idea that a lavish display of solid bronze and expensive marbles produce the most effective corridors; that a wealth in ornament, be it in white marble or terra cotta, will enable them to obtain a pleasing and imposing facade. It is time that they realized that good planning, well studied proportions and a modicum of appropriate and carefully designed ornament are the elements which produce successful buildings. It is also time that they appreciate the fact that these can be obtained only at the hands of an experienced and well-trained architect, and that an architect can, with the use of the most modest priced materials, obtain a building more appropriate and with more enduring charm than the untrained man with the highest priced products of the quarries and the mines.

The truth of Mr. Litchfield's statements, comments the American Architect, has of course always been realized by members of the profession, and indications are not lacking that a rapidly increasing number of operators and investors are accepting it each year. The field of the architect's activities is rapidly widening, until it now embraces—to a limited degree perhaps in some instances—practically every class of building or structure erected. All that is necessary to make the employment of an architect the first step in any building operation, is the education of the layman to a full appreciation of the architect's methods and functions. To this work of education,

Mr. Litchfield's article forms a worthy contribution, and it is hoped that every architect will, as opportunity offers, render a similar service.

PROTEST AGAINST DESTRUCTION OF WORKS OF ART ABROAD.

George F. Hammond, an architect of Cleveland, Ohio, has started a movement in this country to protest against the destruction of historical buildings and works of art in the present conflict in Europe and has addressed a letter to the architects of the United States courteously expressing his views and asking the co-operation of the profession. The letter is as follows:

Dear Sir: I have taken it upon myself to get an expression of opinion from as many members of the Institute as are willing to answer this letter in regard to the destruction of works of art and historical buildings by contending nations in the present conflict in Europe.

Owing to the fact that so many of the European countries are at war it seems to remain for the architects of the United States to protest against the unnecessary destruction of works of art and architecture.

While an expression of opinion will naturally be personal it should, as a whole, and representing as it will the sentiment of individuals, have some weight, not alone with foreign citizens in general, but with foreign officials to whose attention it will undoubtedly be brought.

It is because what is everybody's business is nobody's business that I have seen fit to take the initiative in this matter. I do not see that a protest of this kind can be received except in the respectful spirit in which it is offered; it is therefore couched in moderate terms.

I am sending a copy of this letter and enclosure to each Fellow and Member of the Institute.

Trusting you will sign and return the enclosure at your earliest convenience in order that the matter may be brought to the attention of the president and acted upon, I remain,

Very truly yours,

GEORGE F. HAMMOND,

Fellow of the American Institute of Architects.

Those who are in sympathy with the movement are asked to sign the following letter and send it to the President.

To the President, Washington, D. C.

Sir: We, the undersigned, Fellows or members of the American Institute of Architects, desire to call your attention to the reported destruction of works of art and buildings of architecture or historical interest by the contending armies in the present European war.

We request that you will take such action as in your judgment may be advisable to bring to the notice of our ambassadors for proper presentation to the rulers of all nations, this, our expression of opinion.

We believe that the works of art and architecture belong, in a sense, not exclusively to the nation holding them, but to the entire world.

We believe that the destruction of this class of property, which cannot be replaced, is not a necessary or justifiable act.

We believe that, however great the provocation, other methods of obtaining redress may be used instead of depriving this and further generations of the benefit of the study of works of art and architecture produced by those who have preceded them.

We therefore request you to bring to the attention of the world in general our views in such a manner as you may deem advisable.

Respectfully,

ONE REASON WHY OWNERS DO NOT BUILD.

It was a few minutes after twelve o'clock on a Saturday. A truck loaded with small steel beams backed up in front of a building in course of construction.

"Hey," said the driver to the contractor in charge, "I want to unload; send out a couple of ironworkers."

"Can't; all gone home."

"That's bad," muttered the driver, picking up the reins.

"Wait a minute," said the contractor, "and we'll get you unloaded. Send two men up here," he shouted to the foreman.

Two hodcarriers appeared, and the contractor took off his coat to lend a hand. Just then a walking delegate happened around the corner.

"Are those men ironworkers?" he asked.

"No; can't you see they're hodcarriers."

"Then they can't handle those beams," remarked the delegate with assurance.

"But I need the beams, and there ain't any ironworkers here now."

"Can't help what you need," said the delegate jauntily; "hodcarriers ain't allowed to handle ironwork."

The driver looked at the delegate and then at the contractor.

"Guess I'd better bring 'em back Monday," he said, and without another word drove off.

The delegate lit a cigar and moved on. The contractor resumed his coat.—N. Y. Evening Post.

CRET ON THE SWISS FRONTIER.

Professor Paul P. Cret, of the School of Architecture, University of Pennsylvania, is reported to be serving on the hospital corps of the French army. When last heard from, he was on duty near the Swiss frontier. Mr. Leon Arnal, his former colleague at the University, is serving as a lieutenant under the same flag. In the absence of Messrs. Cret and Arnal, criticism in design at the University of Pennsylvania will be given by Messrs. Edgar Seeler, C. C. Zantzinger, Paul A. Davis and John V. Van Pelt.

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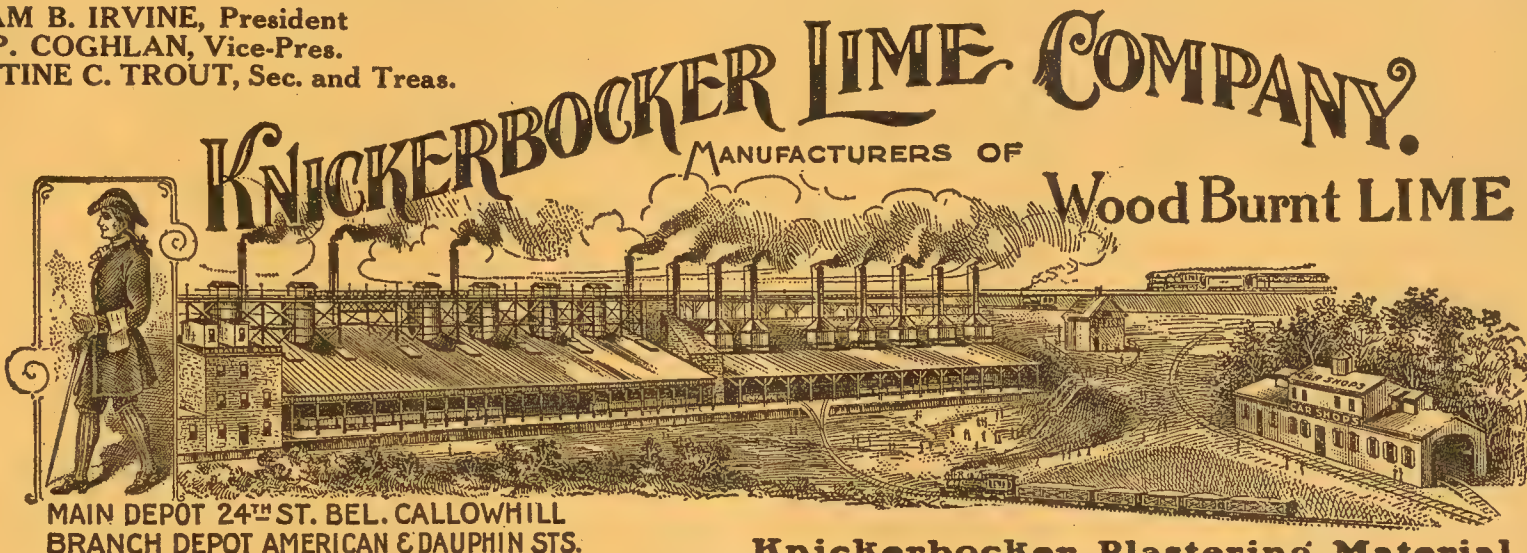
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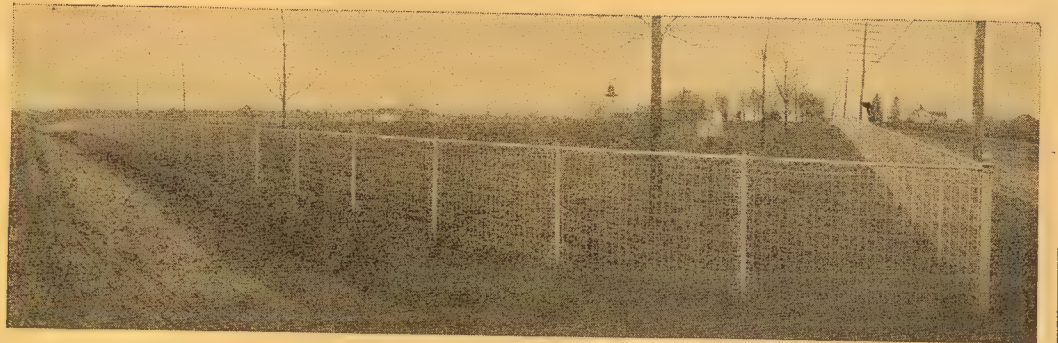
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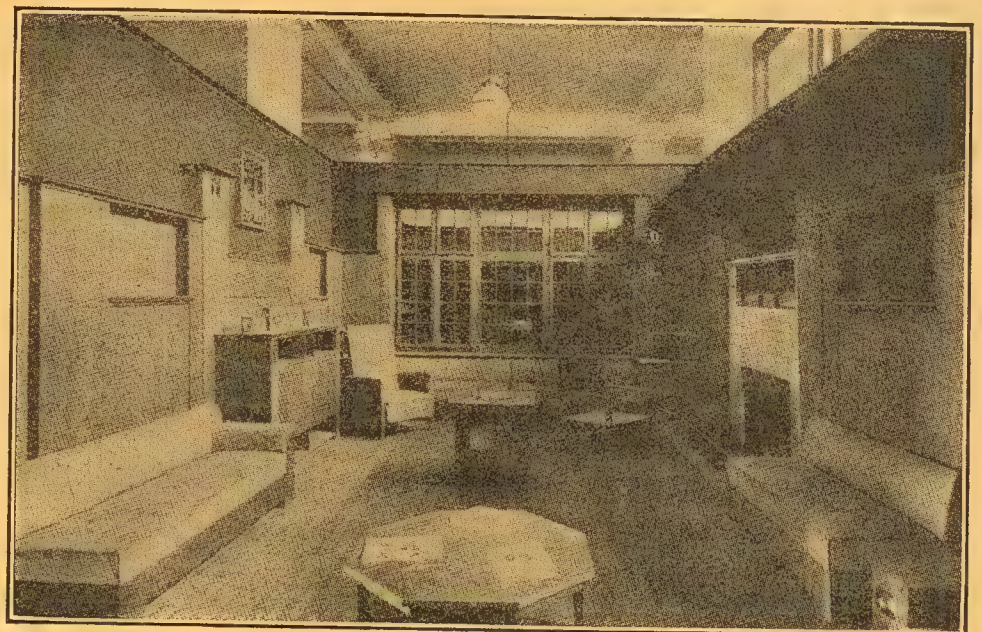
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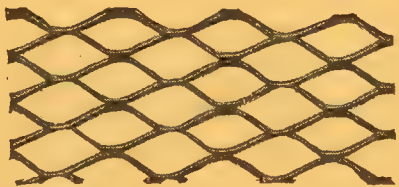
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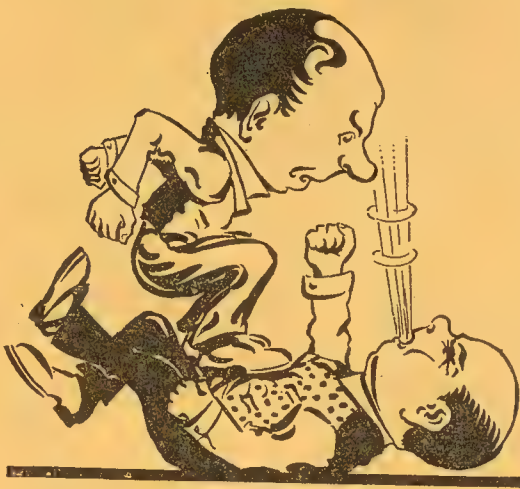
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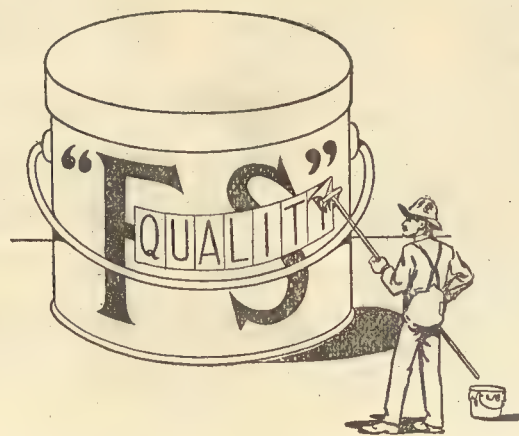
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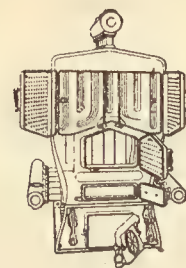
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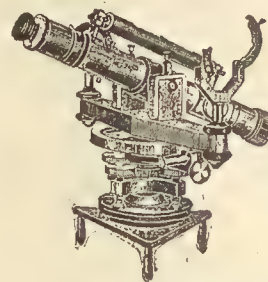
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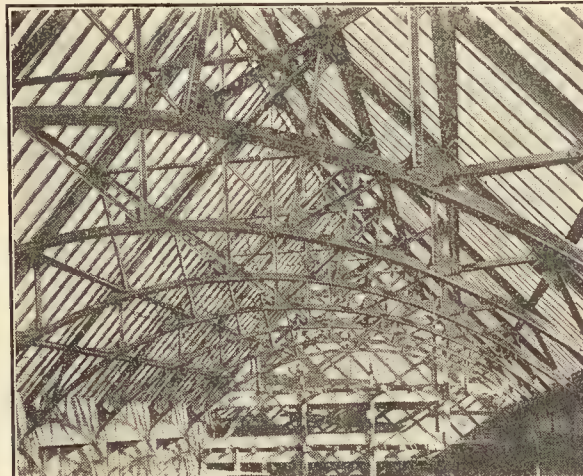


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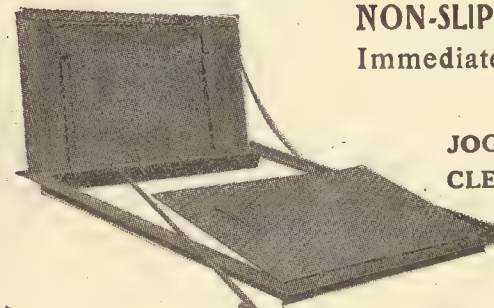
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Vol. XXIX., No. 50.

PHILADELPHIA, WEDNESDAY, DECEMBER 16, 1914.

Less than One Year
15 Cents per Copy

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (82), Frankford avenue and Venango streets, Philadelphia. Architect, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, name withheld. Brick, two stories, 15x38 feet, slag roof, hot air heating, gas lighting. Plans in progress.

Alteration for Bank, Sixty-ninth and Market streets, Philadelphia. Architect, Lewis F. J. Moore, Lansdowne, Pa. Owner, Media Title & Trust Company, Media, Pa. Consists of interior alterations and addition, new partitions and fixtures. Architect taking bids due December 17th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; J. Myers & Sons Company, Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; Jas. B. Flounders, 1329 Arch street; Lansdowne Construction Company, Lansdowne, Pa.

Synagogue, Fifty-eighth and Walnut streets, Philadelphia. \$50,000. Architect Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Congregation Beth-El, care S. M. Strauss, 4932 Locust street. Stone, 2 stories, 75x90 feet, tile roof, steam heating, electric lighting, tile floors, metal lath, waterproofing. Architect has received revised bids.

Store (alts.), 1414 South Penn Square, Philadelphia. Architects (Assoc.), Carl P. Berger, 1418 South Penn Square, Philadelphia, and L. E. Denslow, 44 West Eighteenth street, New York City. Owner, United Cigar Stores Company, 44 West Eighteenth street, New York City. Consists of new front and interior alterations to first floor, electric lighting, tile work. Architects taking bids due December 19th. The following are figuring: Edw. Fay & Sons, 2 South Mole street; Smith-Hardican Company, 1605 Cherry street; E. E. Hollenback, Fifteenth and Race streets; Burd P. Evans & Company, Thirteenth and Wallace streets, all of Philadelphia.

Garage, 415 North Sixty-third street, Philadelphia. Architect, J. Vaughn Tunnell, 5548 Haverford avenue, Philadelphia. Owner, Clifford W. Miller, 5716 Girard avenue, Philadelphia. Brick, 1 story, 20x200 feet, slag roof, steam heating, electric lighting. Owner has received revised bids.

Residence (alt. and add.), 238 South Twen-

ty-first street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 16x30 feet, slag roof, hot water heating, electric lighting, tile floors. Architect taking sub-bids on all lines.

Garage, Summer and Griscom streets, Frankford, Philadelphia. Architect, S. D. Milnor, 4634 Penn street, Philadelphia. Owner, Geo. P. Oldham, 4671 Frankford avenue, Philadelphia. Brick, 2 stories, 45x46 feet, slag roof, hot water heating, electric lighting (gasoline storage reserved). The following are figuring: Harry Rush, 1023 Orthodox street; Chas. W. Carn, 1554 Dyre street, Frankford; C. West & Sons, 1034 Herbert street; John Fotheringham, 3367 Frankford avenue, Philadelphia.

Police and Fire Station, Sixty-first and Thompson streets, Philadelphia. Architect, Louis E. Marie, City Hall, Philadelphia. Owner, Department of Public Safety, City Hall, Philadelphia. Brick and stone, 3 stories, slate roof, steam heating, electric lighting, composition floors. Owner has revised bids.

Mezzanine Floors (2), Ninth and Chestnut streets. Architect, private plans. Owner, U. S. Government, care Post Office, Ninth and Chestnut streets. Consists of steel and concrete, 36x75 feet, steam heating, electric lighting. Owner taking bids due December 28th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; Wm. R. Dougherty, 1608 Sansom street; Chas. McCaul Company, 1710 Sansom street; T. C. Trafford, 1613 Sansom street; Jacob Myers & Sons Company, Witherspoon Building; Burd P. Evans & Company, Thirteenth and Wallace streets.

Synagogue, Fifty-Eighth and Walnut streets. \$50,000. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Congregation, Beth-El, care S. M. Strauss, 4932 Locust street. Stone, 2 stories, 75x90 feet, tile roof, steam heating, electric lighting, tile work, metal lath, waterproofing. Architect has received revised bids.

Residence (alt. and add.), Oak Lane, Philadelphia. Architect, F. S. Ritter, Washington Hotel, Philadelphia. Owner, Wm. H. Ritter,

2156 East Dauphin street, Philadelphia. Stone and frame, 2½ stories, 18x28 feet, tin roof, steam heating, electric lighting, oak floors. Plans in progress. Bids in one week.

Market House, 954-56 Marshall street, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Charles Ellman, 314 North Second street, Philadelphia. Brick, concrete and steel, 1 story, 23x176 feet, slag roof, electric lighting, concrete floors. Architect taking bids due December 21st. In addition to those previously reported, Geo. L. Sipps, 912 Locust street; A. Whitehead, Inc., 1624 Latimer street; Smith-Hardican Company, 1606 Cherry street; Harry Shirk, 887 Drexel Building, all of Philadelphia, are figuring.

Show Rooms (alts.), Broad and Wallace streets, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Automobile Trade Association, Broad & Callowhill streets. Consists of fitting up first floor for automobile show, carpenter work, painting, decorating and electric work, plumbing work. Architect has received bids.

Flat House, Twelfth and City Line, Oak Lane. Architect, Chas. E. Oelschlager, Harrison Building. Owner, name withheld. Brick, stone and terra cotta, 4 stories, 125x150 feet, slag roof, vapor vacuum heating, electric lighting, hardwood floors, tile work. Architect taking bids, due December 17th. I. T. Shoemaker, 1309 Walnut street, is figuring.

Dairy, Forty-eighth and Parrish streets, Philadelphia. Architects, Shore & Dodge, 608 Chestnut street, Philadelphia. Owner, Robert E. Powell, 884 North Forty-eighth street, Philadelphia. Brick, steel and terra cotta and concrete, 3 stories, 80x125 feet, slag roof (steam heating, electric lighting, reserved). Revised plans in progress, bids in a few days.

Saloon alt. and add.), Fiftieth and Market streets, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, James Graham, on premises. Brick, 2 stories, 20x50 feet, slag roof (vapor vacuum heating, reserved), electric lighting. Plans in progress.

Storage Building, Manayunk. \$2,000.

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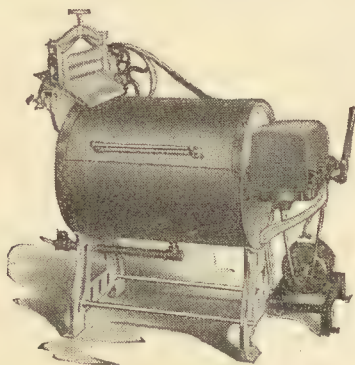
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LIBERTY STOVE CO.

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114 N. 2nd St., Phila.

Architect, private plans. Owner, Philadelphia Paper Manufacturing Company, River Road, Manayunk, Philadelphia. Brick, 1 story, 26x103 feet, slag roof. Owner is building.

Store and Building, Second and Church streets, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, Harry Fleigelman, 36 North Second street, Philadelphia. Brick, 4 stories, 60x100 feet, slag roof, steam heating, electric lighting, maple floors, rolled steel sash. Revised plans in progress.

Residences (82), Frankford avenue and Venango streets, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, Joseph Lupowitz, 429 Snyder avenue, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, hot air heating, gas lighting. Plans completed. Owner ready for sub-bids.

Nurses' Home (completion), Penn near Chew street, Germantown. Architect, Louis Carter Baker, 34 South Seventh street, Philadelphia. Owner, Germantown Dispensary and Hospital, on premises. Brick, stone and terra cotta, fireproof, 3 stories, 61x136 feet, tile and slag roof, electric lighting, composition floors, safety treads, gypsum blocks, kalamein doors (heat reserved). Architect taking bids, due Building; Fred Elvidge & Sons, 5522 Germantown avenue, Philadelphia, are figuring.

Picture Theatre and Stores, Broad and Rockland streets, Philadelphia. Architect, A. December 18th. H. E. Baton, Twelfth and Sansom streets; Fidelity Const. Co., Heed Building; J. P. Thompson, Real Estate Trust Schenck, Real Estate Trust Building, Philadelphia. Owner, Clarence S. Shilcock, 1344

Rising Sun lane, Philadelphia. Brick and terra cotta, 1 story, 55x177 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Plans in progress.

Iron Stairway and Sun Porches, Fifteenth and Race streets, Philadelphia. Architects, Thomas & Molitor, 130 South Fifteenth street, Philadelphia. Owner, Hahnemann Hospital, Fifteenth and Race streets, Philadelphia. Architect taking approximate bids. Charles McCaul Co., 1713 Sansom street, Philadelphia, is the only bidder.

Mezzanine Floors (2), Ninth and Chestnut streets, Philadelphia. Architect, private plans. Owner, United States Government, Post Office Building, Ninth and Chestnut streets. Consists of steel and concrete, 36x75 feet, steam heating, electric lighting. Owners taking bids, due December 28th. In addition to those reported, Stacy Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

Residences (298), Twenty-seventh and Dickinson streets, \$422,000. Architect, private plans. Owner, Burton C. Simon, Nineteenth and Passyunk avenue, Philadelphia. Brick, 2 stories, slag roof, hot air heating, gas and electric lighting. Builder, Harry W. Williams, 2334 South Twentieth street. Work started.

Residences (25) Edgewood street and Lansdowne avenue, Philadelphia. Architect, private plans. Owner, George W. Bourne, Edgewood and Lansdowne avenue. Brick, 2 stories, 15x60 feet, slag roof, hot water heating, electric lighting, oak floors. Owners taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 1511 Webster street, Philadelphia. \$1,200. Architect, private plans. Owner, C. A. Wolf, Fifteenth and South streets, Philadelphia. Brick, 2 stories, 18x35 feet, slag roof. Contract awarded to Samuel Schultz, 3113 Montgomery avenue, Philadelphia.

Factory, Ontario and Richmond streets, Philadelphia. \$12,000. Architect, private plans. Owner, Animal Oil Company, on premises. Concrete, 2 stories, 100x50 feet, slag roof, electric lighting. Contract awarded to

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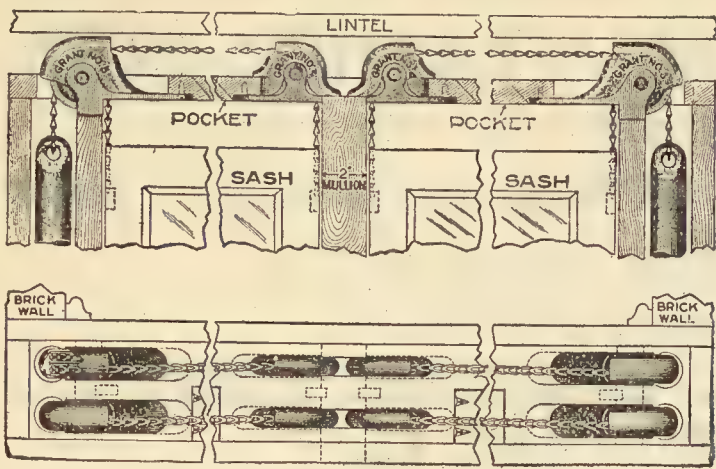
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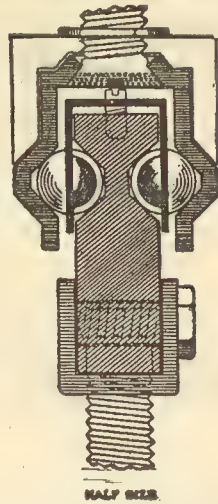
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Eugene Tourison, 1001 Chestnut street, Philadelphia.

Store and Residence (alts.), Fifty-ninth and Market streets, Philadelphia. \$5,000. Architect, W. H. Hoffman Company, Juniper and Market streets, Philadelphia. Owner, Norris Realty Company, Juniper and Market streets, Philadelphia. Brick, 3 stories. Consists of changes to front and interior. Contract awarded to J. A. Bader Company, Heed Building, Philadelphia.

Stable, 1828 Foulkrod street, Philadelphia. Architect, private plans. Owner, David Mahan, on premises. Brick, 2 stories, 26x62 feet, slag roof. Contract awarded to H. A. Leister, 1808 Harrison street, Frankford, Philadelphia.

Laboratory, 307-309 Newstreet, Philadelphia. Architect, D. K. Boyd, Fifteenth and Walnut streets, Philadelphia. Owners, England, Walton & Company, Third and Vine streets, Philadelphia. Brick and concrete, fireproof, 2 stories, 25x45 feet, slag roof, metal lath. concrete floors, waterproofing (heating and electric work and plumbing, separate bids). Contract awarded to Monaghan & Losse, 214 South Twelfth street, Philadelphia.

Bakry (add.), 1109 Spring Garden street, Philadelphia. \$15,000. Architect, private plans. Owner, Moore Bread Company, on premises. Brick, 3 stories, 31x53 feet, slag roof. Contract awarded to A. Raymond Raff, 1635 Thompson street.

Store and Residence (alt. and add.), Front and Reed streets, Philadelphia. \$4,800. Architect, private plans. Owner, Edward Trainer, Second and Queen streets, Philadelphia. Brick, 3 stories, 20x32 feet, slag roof, electric lighting. Contract awarded to D. F. Wholey, 1109 Indiana avenue, Philadelphia.

Restaurant, Nineteenth and Vine streets, Philadelphia. Architect, private plans. Owner, Billy Sunday Tabernacle Company, Stock Exchange Building, Philadelphia. Frame, 1 story, 100x144 feet, slag or prepared roofing. Builder, J. H. Speice, Stock Exchange Building. Work started.

Residence (alt.), 419 West Johnson street. Architects, Savery, Sheetz & Savery, Stephen Girard Building. Owner, Albert Savery, Stephen Girard Building. Brick, stone and frame, 2½ stories, shingle roof, hot water heating, electric lighting. Contract awarded

to Moore & Graham, 6224 Wissahickon avenue.

Brewery (alt.), Thirty-second and Master streets. \$4,000. Architect, private plans. Owner, Bergner & Engel Brewing Company, on premises. Consists of new concrete floors in shop building. Contract awarded to E. E. Hollenback, Fifteenth and Race streets.

Offices (alt.), 3225 North Front street. \$1,500. Architect, private plans. Owner, E. P. Boon. 3223 North Front street. Brick, 2 stories, 18x40 feet, slag roof. Contract awarded to J. W. Mortimer, 3034 E street.

Residence (2), Algon avenue and Cottmar streets. \$4,000. Architect, private plans. Owner, F. Polis, 1 220 Flora street. Brick, 2 stories, 16x40 feet each, slag roof, hot water heating, gas lighting. Contract awarded to Geo. Rosenburg, 4156 North Marshall street.

Dairy (dad.), 2013 North Mascher street, Philadelphia. \$1,200. Architect, private plans. Owner, Peter Hernig, on premises. Brick, 1 story, 16x26 feet, slag roof. Contract awarded to Philip Haibach Contracting Company, Twenty-sixth and Thompson streets, Philadelphia.

Machine Shop, Twenty-second and Clearfield streets, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Jacob Hornung, Twenty-second and Clearfield streets, Philadelphia. Brick and concrete, 2 stories, 36x60 feet, slag roof, steam heating, electric lighting. Contract awarded to Philip Haibach Contracting Company, Twenty-sixth and Thompson streets.

Garage (rebuilding), 5404 Westminster avenue, \$1,400. Architect, private plans. Owner, Charles Lehr, 1422 Chestnut street, Philadelphia. Brick, 1 story, slag roof. Contract awarded to J. M. Holm, 2556 Arch street, Philadelphia.

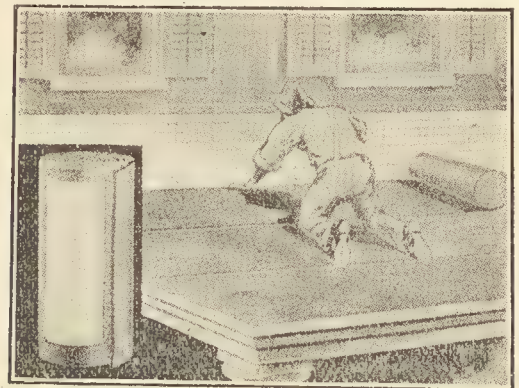
Shop (alt. and add.), 1813 Kater street, Philadelphia, \$1,500. Architect, private plans. Owner, Harry J. McCarrick, 1724 Ellsworth street, Philadelphia. Brick, 1 story, 14x25 feet, slag roof. Contract awarded to John Maginnis, 514 Walnut street, Philadelphia.

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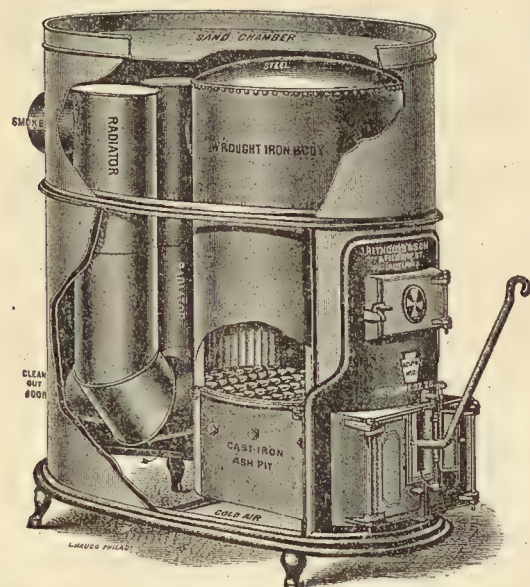
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PENNSYLVANIA

Construction News

Residence (alt. and add.), Bethel Hill. Architect, Howard G. Peppercorn, Norristown, Pa. Owner, John M. Steffin, Bethel Hill, Pa. Frame and plaster, 2½ stories, slate roof (hot water heating and electric lighting, reserved), hardwood floors. Architect has received bids.

Boys' Club, Harrisburg, Pa. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Pine Street Presbyterian Church, care Henry B. McCormick, Harrisburg, Pa. Brick, stone, 2 stories. Details undecided. Plans in progress.

Farm House (alt.), Lionville, Pa. \$3,000. Architects, Zantzinger, Borie & Medary, Fifteenth and Walnut streets, Philadelphia. Owner, Harrison Durant, Lionville, Pa. Stone, 3 stories. Consists of general alterations. Plans completed. Owner ready for bids.

Residences (6), Noble, Pa. \$70,000. Architect, Grank Seeburger, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ stories, slate, tile and shingle roof, hot water heating, electric and gas lighting, hardwood floors, tile work. Architect taking bids due December 17th. The following are figuring: Wm. J. Grubler Company, 219 East High street; John E. Kearney, 327 North Sixty-third street; Specht & Sperry, Heed Building; F. B. Davis, 240 North Sixteenth street, all of Philadelphia, and W. John Stevens, Wyncote, Pa.

Residence, Drexel Hill, Pa. Architect, H. B. Peterson, 34 South Seventeenth street, Philadelphia. Owner, T. W. Barnhill, 1224 North Fifty-ninth street, Philadelphia. Stone and frame, 2½ stories, 40x60 feet, slate and canvas roof, hot water heating, electric lighting, oak floors. Architect has received revised bids.

Administration Building, Myerstown, Pa. \$50,000. Architect, A. A. Ritcher, 6th & Court streets, Reading, Pa. Owner, Albright College, Rev. Dr. Dunlap, President, Myerstown, Pa. Stone and brick, 3 stories. Details not decided. Plans in progress.

Residence and Garage, Spring Mount, Pa. \$7,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, J. H. Barr, Spring Mount, Pa. Hollow tile and

brick, 2½ stories, 23x40 feet, slate roof, vapor heating, gas and electric lighting, hardwood floors, tilework. Architect ready for bids.

Store and Garage (alt. and add.), Reading, Pa. \$2,000. Architect, Clavin J. Young, 520 Washington street, Reading, Pa. Owner, E. E. Hinkle, Twelfth and Windsor streets, Reading, Pa. Brick and concrete, 2 stories, 15x40 feet, tin roof, hot water heating, electric lighting, concrete floors. Plans in progress.

Residence (alt. and add.), Langhorne, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x40 feet, shingle roof, steam heating, electric lighting, hardwood floors. Plans in progress. Bids in one week.

Residence, Elkins Park, Pa. \$10,000. Architects, Stackhouse & Street, Drexel Building, Philadelphia. Owner, S. W. Lowenstein, Oak Lane, Philadelphia. Hollow tile and plaster, 2½ stories, 30x60 feet, slate roof, hot water heating, electric lighting, oak floors, canvas roof. Revised plans in progress.

Automobile Factory, Scranton, Pa., \$50,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, Motor Kart Co., care of G. C. Wolf, Hotel Jermyn, Scranton, Pa. Concrete, 2 stories, 60x300 feet, slag roof, steam heating, electric lighting, wood block and concrete boars, waterproofing and damp-proofing. Plans in progress.

Stable and Garage, Duryea, Pa., \$20,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owners, Standard Brewing Company, Penn avenue and Walnut street, Scranton. Brick, 1 and 2 stories, 29x70 feet and 30x80 feet, slag and slate roof, steam heating, electric lighting, brick and concrete floors. Revised plans about completed. Architect will take bids in a few days.

Store Building, Pittston, Pa., \$24,000. Architect, Albert J. Ward, Republican Building, Scranton, Pa. Owner, C. H. Cutler, Pittston, Pa. Brick and limestone trimmings, 2½ stories, 40x144 feet, slag roof, steam heating, gas and electric lighting. Revised plans in progress.

Store Building (alts.), Wilkes-Barre, Pa., \$7,000. Architect, George F. Schroeder, Weizenkorn Building, Wilkes-Barre, Pa.

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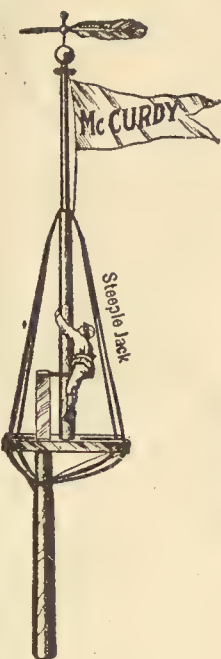
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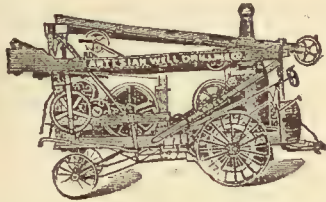
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Owner, Benjamin Weitzenkorn, 225 South Franklin street, Wilkes-Barre. Brick, 3 stories, consists of new front and interior alterations, electric lighting. Plans completed. Architect will take bids in a few days.

Church and Sunday School, Wilkes-Barre, Pa., \$100,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Westminster Presbyterian Church, Wilkes-Barre, Pa. Brick and terra cotta, 1 and 2 stories, 100x190 feet, slate roof, steam heating, electric lighting. Plans in progress.

Home and Residence, Jednoda, Pa., \$25,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Slavonic Catholic Union, A. K. Kozah, President, High-spire, Pa. Brick and frame, 3 stories, 40x45 feet and 34x39 feet, asbestos shingle roof, steam heating, electric lighting. Revised plans in progress. Architect will take bids in a few days.

Twin Residence, Wilkes-Barre, Pa., \$15,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owners, O'Neill & Miles, Wilkes-Barre, Pa. Brick, 2½ stories, 42x60 feet, slate and slag roofs, vapor heating, gas and electric lighting. Plans completed. Architect ready for bids.

Residence (alt. and add.), Wilkes-Barre, Pa., \$5,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Harry Bloom, 41 North Main street, Wilkes-Barre, Pa. Brick, 2 stories, 30x40 feet, slag roof, steam heating, gas and electric lighting. Architect ready for bids.

Twin Residence, Hazleton, Pa., \$7,500. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owner, Dr. J. J. Russel, Hazleton, Pa. Brick, 2½ stories, 32x

48 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Store Building (alt. and add.), Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owner, Derr Estate, Wilkes-Barre, Pa. Brick and terra cotta, 5 stories, 115x47 feet, slag roof, steam heating, electric lighting, tile work. Architects taking bids.

Residence (alt. and add.), Lancaster, Pa. Architect, William C. Prichett, 416 Walnut street, Philadelphia. Owner, W. C. Bidlack, Lancaster, Pa. Brick. Plans in progress. Too early for details.

Coal Breaker, Pittston, Pa., \$350,000. Engineer not yet selected. Owners, Pennsylvania Coal Company, W. W. Inglis, General Manager, Scranton, Pa. Reinforced concrete and steel, slag roof, electric lighting. Owners will soon select engineer.

Orphanage, South Scranton, Pa., \$50,000. Architect not yet selected. Owner, Rev. Andrew Zychowicz, Prospect avenue, South Scranton, Pa. Brick and stone, 3 stories. Owners will soon select architect.

Church, West Scranton, Pa. Architect not yet selected. Owner, St. Michael the Archangel Lithuanian R. C. Church, Rev. A. Lo-putto, Forest City, Pa. Brick and stone, 1 story, 50x100 feet, slate roof, steam heating, electric lighting. Owners will soon select architect.

Picture Theatre (add.), Scranton, Pa., \$2,000. Architect, private plans. Owner, Mrs. Fannie Goodman, 123 South Main street, Scranton, Pa. Brick, 1 story, 37x45 feet, slag roof, steam heating, electric lighting. Owner taking bids.

PENNSYLVANIA

Contracts Awarded

Church, Maizeville, Pa., \$10,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, St. Louis Lithuanian R. C. Church, Maizeville, Pa. Frame, 1 story, 40x90 feet, Carey's roof, steam heating, electric lighting. Contract awarded to Samuel Dietrich & Son, Pottsville, Pa.

Bridge No. 3, Valley Creek, on Cedar Hollow Branch, Pa. Architect, Wm. Hunter, Twelfth and Market streets, Philadelphia. Owner, Philadelphia & Reading Railway Company, Twelfth and Market streets, Philadelphia. Concrete and steel, 225 feet long. Contract awarded to Fehr & O'Rourke, Reading, Pa.

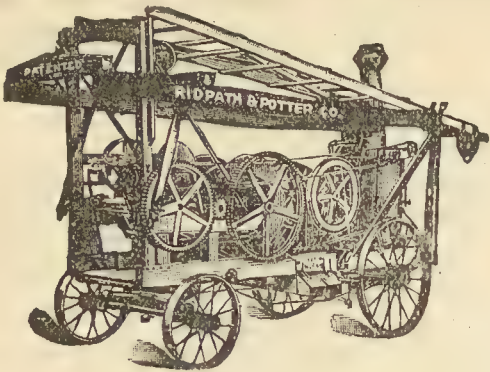
Bridge No. 31, North of Virginville, on the Schuylkill Branch. Architect, Wm. Hunter, Twelfth and Market streets, Philadelphia. Owner, Philadelphia and Reading Railway Company, Twelfth and Market streets, Philadelphia. Concrete and steel, 167 feet long.

Contract awarded to C. H. Reimard, Reading, Pa.

Round House (alt.), Bridgeport, Pa. Architect, Wm. Hunter, Reading Terminal, Philadelphia. Owner, Philadelphia and Reading Railway Company, Twelfth and Market streets, Philadelphia. Frame, 1 story, 77x125 feet, asbestos roof. Contract awarded to J. B. Trexler, Reading, Pa.

Twin Residence, Scranton, Pa., \$6,000. Architect, private plans. Owner, J. H. Seeley, 800 Quincy street, Scranton, Pa. Stone, 2 stories, 36x44 feet, slate roof, hot water heating, gas and electric lighting. Contract awarded to Aaron Kennedy, 1437 North Lincoln avenue, Scranton, Pa.

Twin Residence, Scranton, Pa., \$4,000. Architect, private plans. Owner, P. J. Holleran, Scranton, Pa. Frame, 2 stories, 32x38 feet, slate roof, hot air heating, gas lighting.



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Contract awarded to M. P. Judge, 1124 St. Ann street, Scranton, Pa.

Twin Residence, Scranton, Pa., \$4,000. Architect, private plans. Owner, Charles Rink, Scranton, Pa. Frame, 2 stories, 34x38 feet, slate roof, hot water heating, gas lighting. Contract awarded to Hower & Stendor, Madison avenue and Ash street, Scranton, Pa.

Residences (3), Scranton, Pa., \$6,000. Architect, private plans. Owner, Samuel Hopkins, Scranton, Pa. Frame, 2 stories, 40x50 feet, slag roofs, steam heating, electric lighting. Contract awarded to Hower & Stender, Madison avenue and Ash street, Scranton, Pa.

Garage, Wilkes-Barre, Pa. Architect, private plans. Owner, M. H. McAniff, Coal Exchange Building, Wilkes-Barre. Brick, 1 story, 48x84 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to John A. Schmitt Sons, Bennett Building, Wilkes-Barre, Pa.

Residence, Wilkes-Barre, Pa., \$4,000. Architect, private plans. Owner, Henrietta Hesser, Wilkes-Barre, Pa. Brick, 2 stories, 28x41 feet, slate roof, hot air heating, gas and electric lighting. Contract awarded to F. W. Eddy, 266 Horton street, Wilkes-Barre.

Twin Residence, Wilkes-Barre, Pa., \$3,500. Architect, private plans. Owner, Andrew Gerard, Wilkes-Barre, Pa. Frame, 2 stories, 30x40 feet, tin roof, hot air heating, gas lighting. Contract awarded to J. M. Gaynor & Sons, 77 South Grant street, Wilkes-Barre, Pa.

Comfort Station, Scranton, Pa., \$25,000. Architect, J. A. Duckworth, Coal Exchange Building, Scranton, Pa. Owner, City of Scranton, care of B. Moses, City Hall, Scranton. Concrete, 1 story, 61x27 feet, concrete roof, steam heating, electric lighting, ter-

razza and concrete floors. Contract awarded to Peter Stipp, 327 North Washington avenue, Scranton, Pa.

Hose House, Olyphant, Pa., \$9,000. Architect, John J. Feeney, Coal Exchange Building, Scranton, Pa. Owner, Borough of Olyphant, Olyphant, Pa. Brick and stucco, 2 stories, 28x50 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to W. A. Taylor, Olyphant, Pa.

Warehouse, Scranton, Pa. Architect, private plans. Owners, T. F. Leonard Company, 505 Lackawanna street, Scranton. Frame, 1 story, 60x75 feet, slag roof, electric lighting. Contract awarded to M. P. Judge, 1124 St. Ann street, Scranton.

Store Building, Wilkes-Barre, Pa., \$11,700. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owner, James Campbell Estate, Wilkes-Barre, Pa. Brick, 2 stories, 50x45 feet, slate roof, steam heating, gas and electric lighting, tile roof. Contract awarded to I. H. Leach, 88 North Pennsylvania avenue, Wilkes-Barre, Pa.

Cold Storage Plant (alts.), Scranton, Pa., \$20,000. Architect, Edward Langley, Connell Building, Scranton, Pa. Owner, Lackawanna Cold Storage and Warehouse Company, 706 Wyoming avenue, Scranton, Pa. Concrete, steel and terra cotta, 7 stories, 80x80 feet, electric lighting, concrete floors, dampproofing. Contract awarded to Williams & Richardson, Connell Building, Scranton, Pa.

Stores (2), Wilkes-Barre, Pa., \$10,000. Architect, Henry A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, D. S. Williams & Ralph Israel, Wilkes-Barre, Pa. Brick, 2 stories, 48x100 feet, slag roof, steam heating, electric lighting, iron grilles. Contract awarded to O. J. Behrens & Sons, 179 Blackman street, Wilkes-Barre, Pa.

NEW JERSEY Construction News

Apartment House, South Victoria avenue, Atlantic City. \$18,000. Architect, V. B. Smith, Sheen Building, Atlantic City. Owner, name withheld. Brick, stone trimmings, 4 stories, 35x70 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile room, metal lath, ornamental iron. Plans in progress.

Garage, Atlantic City. \$16,000. Architects, Smith & Henderer, Sheen Building, Atlantic City. Owner, Dr. Robert B. Ludy, Pacific and South Tennessee avenues. Brick and concrete, 2 stories, 54x93 feet, tile, slag roof, steam heating, electric lighting, elevator. Architects have received bids.

Store and Apartment, 929 Atlantic avenue, Atlantic City. \$15,000. Architect, Louis Barber, 15 North Massachusetts avenue, Atlantic City. Owner, Henry Bolte, Jr., on premises. Brick, 3 stories, 25x130 feet, slag roof, hot water heating, gas and electric lighting, tile work, metal lath, weather strips, ornamental iron grilles. Plans completed. Architect will take bids January 1st.

Store and Warehouse, rear 1609 Atlantic avenue, Atlantic City. \$3,000. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, Julius Lichtenstein, 1611 Atlantic avenue. Brick, 3 stories, 20x52 feet, slag roof, electric lighting. Plans in progress.

Apartments (alt.), Iowa and Atlantic avenues, Atlantic City. \$5,000. Architect, Bertram Ireland, Bartlett Building, Atlantic City. Owner, Samuel Comly, on premises. Consists of new glass sun parlors. Plans in progress.

School, Lawnside, N. J. \$12,500. Architect, John L. Coneys, 1513 Walnut street, Philadelphia. Owner, Center Township School Board. Brick, 2 stories, slate or slag roof, steam heating, electric lighting. Plans in progress.

School, Barrington, N. J. \$12,500. Architect, John L. Coneys, 1513 Walnut street, Philadelphia. Owner, Center Township School Board. Brick, 2 stories, slate or slag roof,

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steam heating, electric lighting. Plans in progress.

School, Highland Park, N. J. \$12,500. Architect, John L. Coneys, 1513 Walnut street, Philadelphia. Owner, Center Township School Board. Brick, 2 stories, slate or slag roof, steam heating, electric lighting. Plans in progress.

School, Plainfield, N. J. Architects, Wilder & White, 50 Church street, New York City. Owner, Board of Education, Plainfield, N. J. Brick, fireproof, 2 stories and basement, 85x180 feet, slag roof, electric lighting, metal lath, waterproofing, composition floors, iron grilles, safety treads (heating reserved). Lowest bid submitted by Berry-Goodwin Company, Drexel Building, Philadelphia.

Residence, 29 East Twenty-fifth street, Camden, N. J. Architect, private plans. Owner, Harvey K. Partridge, 507 State street, Camden, N. J. Brick, 2 stories, 15x43 feet, slag roof, hot air heating, gas lighting. Owner taking sub-bids.

Store and Residence, 2211 Federal street, Camden, N. J. Architect, private plans. Owner, Harvey K. Partridge, 507 States street, Camden, N. J. Brick, 2 stories, 20x61 feet, slag roof, hot air heating, gas and electric lighting. Owner taking sub-bids.

Residence and Store, Camden, N. J. \$3,000. Architect, Chas. J. Brooke, 518 Federal street, Camden, N. J. Owner, name withheld. Brick, 2 stories, 16x51 feet, slag roof, gas and electric lighting, heat not decided. Plans in progress.

Infirmery, Trenton, N. J., \$40,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, City of Trenton, City Hall, Trenton, N. J. Brick, 3 stories, 215x30 feet slate roof, steam heating, gas and electric lighting, metal lath. Plans in progress.

Residences (4), Trenton, N. J. Architect, private plans. Owner, Harry Siegel, 124 Phil-

lips street, Trenton, N. J. Brick, 2 stories, 14x42 feet each, slag roof, hot air heating, gas lighting. Owner is sub-letting all contracts.

Factory, New Brunswick, N. J. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Bayuk Bros. Co., Third and Spruce streets, Philadelphia. Brick, 4 stories, 90x100 feet, slag roof, steam heating, electric lighting. Plans in progress.

NEW JERSEY

Contracts Awarded

Residence (alt. and add.), Atlantic City, N. J. \$6,000. Architect, Vivian B. Smith, Sheen Building, Atlantic City. Owner, John Burt, 1443 South Broad street, Philadelphia. Brick and frame, 3 stories, 34x34 feet, asbestos-shingle roof, hot water heating, gas and electric lighting, tile work. Contract awarded to John W. Ingersoll, 1510 Atlantic avenue, Atlantic City, N. J.

Residence (2), Ventnor, N. J. Architect, Seward G. Dobbins, 1318 Atlantic avenue, Atlantic City. Owner, John O. Wilson, Fourth and Market streets, Camden, N. J. Frame, 3 stories, slate roof, gas and electric

lighting, hot water heating. Contract awarded to Alex. W. Dick, Ventnor, N. J.

Residence and Garage, Trenton, N. J., \$11,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owner, William P. Conrad, Scotch road, Trenton, N. J. Brick, hollow tile and stucco, 2½ stories, 47x36 feet and 24x21 feet, slate roof, steam heating, gas and electric lighting, hardwood floors, tile work. Contract awarded for carpenter work to Charles Randall, 43 North Hermitage street, Trenton, N. J.; mason work, to S. W. Mather & Sons, American Mechanics' Building, Trenton, N. J.

MARYLAND

Construction News

Pumping Station, Druid Hill Park, Baltimore, Md. Engineer, private plans. Owner, City of Baltimore, Water Department, City Hall. Brick, concrete and steel, 1 story. Owner taking bids. The following are figuring: Consolidated Engineering Company, Calvert Building; Singer-Pentz Company, Equitable Building; B. F. Bennett Building Company, 123 South Howard street; C. L. Stockhausen, Gay and Water streets; Henry S. Rippel, 7 Clay street; McLean Contracting Company, Fidelity Building; J. J. Walsh & Son, 1533 Maryland avenue, all of Baltimore, Md.

Warehouse and Factory, Bayard and Hamburg streets, Baltimore. \$15,000. Architect, private plans. Owner, Baltimore Gas Appliance Company, on premises. Brick, 2 stories, 215x135 feet, slag roof, steam heating, electric lighting, concrete floors, elevators. Owner taking bids. Fidelity Construction Company, 1906 West Lexington street, Baltimore, and B. F. Bennett Building Company, 123 South Howard street, Baltimore, are figuring.

Church and Sunday School, Park Heights avenue, Baltimore, Md. Architect, W. J. Palmer, Washington, D. C. Owner, Baltimore Station M. E. Church. Brick and stone, 1 and 2 stories, 157x74 feet, slate roof, steam heating, electric lighting. Owner taking bids due December 16th. The following are figuring: T. L. Jones & Son, 210 West Saratoga street; John Hiltz & Son, 7 Clay street; Cowan Building Company, 106 West Madison street; John S. Moke, 1825 West Baltimore street; Chas. Gering, 2238 North North avenue, all of Baltimore, and John N. Horn, Chesapeake and Charleston streets, Towson, Baltimore, Md.

Bank Building, Eutaw and Fayette streets, Baltimore, Md. \$75,000. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Md. Owner, Drivers and Mechanics National Bank, on premises. Stone, brick and steel, fireproof, 1 story, slag roof, steam heating, electric lighting, tile and marble work, monumental iron, brass and bronze work. Plans in progress.

Theatre, 3, 5 and 7 West North avenue, Baltimore, Md. \$80,000. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owner, Northern Amusement Company, Baltimore, Md. Brick and terra cotta, 1 story, slag roof, steam heating, electric lighting, tile and composition floors, metal lath, damp-proofing and waterproofing. Plans in progress.

Apartment House, 1415-17 Druid Hill avenue, Baltimore, Md. \$10,000. Architect, F. E. Beall, 306 St. Paul street, Baltimore, Md. Owner, W. C. McCard, 21 East Saratoga street, Baltimore, Md. Brick, 4 stories, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Church, Smith avenue, near First street, N. W., Washington, D. C. \$40,000. Architects, Baldwin & Pennington, 330 North Charles street, Baltimore, Md. Owner, R. C. Church, care Rev. Peter B. Tarro, Washington, D. C. Stone and brick, 1 story, slate roof, steam heating, electric lighting. Plans in progress.

Factory, 3549-51 Greenmount avenue, Baltimore. \$35,000. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, M. B. Deal, on premises. Brick, 2 stories, 24x32 feet, slag roof, electric lighting. Plans in progress.

Factory, Seventh and Twelfth avenue, Baltimore, Md. Architect, private plans. Owner, Chesapeake Shell Company, on premises. Steel and corrugated iron, 1 story. Owner is sub-letting all contracts.

Residences (26), North Streeper street, Baltimore, Md. Architect, private plans. Owner, Frank Norris Realty Company, 744 North Kenwood avenue, Baltimore. Brick, 2 stories, 12x40 feet each, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Theatre (alts.), Baltimore street, near Holiday street, Baltimore. \$5,000. Architect, A. L. Forrest, Law Building, Baltimore, Md. Owner, Amusea Motion Picture Company, on premises. Consists of new stage. Plans in progress.

Residences (56), Smallwood and Baker avenues. \$95,000. Architect, private plans. Owner, W. L. Westphal, 1700 North Bond street, Baltimore, Md. Brick, 2 stories, 14x42 feet, slag roof, steam heating, electric lighting. Owner is sub-letting all contracts.

Residences (18), Springdale avenue, between Grantley and Edgewood streets. \$72,000. Architect, private plans. Owner, F. E. Yewell, Jr., 2845 North Calvert street, Baltimore. Frame, 2½ stories, 26x38 feet each, slag roof, steam heating, gas and electric lighting. Owner is sub-letting all contracts.

Residence, Roland Park, Baltimore, Md. \$20,000. Architect, Bayard Turnbull, 324 North Charles street, Baltimore. Owner, Dr. Joseph C. Bloodgood, 904 North Charles street, Baltimore. Hollow tile and plaster, 2½ stories, 58x30 feet, slate roof, steam heating, electric lighting, tile work, hardwood floors. Architect taking bids due December 22nd. The following are figuring: E. G. Turner, 15 East Fayette street; Cowan Building Company, 106 West Madison street; R. E. Chambers, Thirty-sixth and Roland avenue; W. E. Harn Company, 213 North Calvert street; R. B. Mason, 308 West Madison street; G. W. Torell, Eutaw and Dolphin streets; Roland Park Company, Roland Park, all of Baltimore, Md.

Residence (alt. and add.), 2040 Eutaw Place, Baltimore. Architect, O. G. Siminon, Casualty Building, Baltimore. Owner, Dr. T. F. Leitz, on premises. Brick, 3 stories, 17x17 feet, slag roof, steam heating, electric lighting. Architect taking bids due December 16th. The following are figuring: E. G. Turner, 15 East Fayette street; M. C. Davis, 640 North Calvert street; C. L. Stockhausen, Gay and Water streets; Ciwan Building Company, 106 West Madison street, all of Baltimore, Md.

Maryland

Contracts Awarded

Ice House, Boston and McDonald streets, Baltimore, Md. \$2,500.

Architect, private plans. Owner, American Ice Company, Calvert Building, Baltimore, Md. Brick, 1 story, 40x90 feet, slag roof, electric lighting. Contract awarded to Melver Construction Company, 7 Clay street, Baltimore, Md.

Store and Residence, 3133 Greenmount avenue, Baltimore, Md. Architect, A. H. Potts, 3133 Greenmount avenue, Baltimore. Owner, Mrs. M. Mehlinger, on premises. Brick, 2 stories, 24x76 feet, slag roof, steam heating, electric lighting. Contract awarded to Potts & Roberts, 3133 Greenmount avenue, Baltimore, Md.

Theatre (alts.), Eutaw and Clay street, Baltimore, Md. Architect, private plans. Owner, A. A. Brager, 116 Eutaw street, Baltimore. Brick, steam heating, electric lighting. Contract awarded to Adam Kratz, 343 South Smallwood street, Baltimore, Md.

Pumping Station, Druid Hill Park, Baltimore, Md. \$15,300. Architect, private plans. Owner, City of Baltimore, City Hall, Baltimore, Md. Concrete, 1 story. Contract awarded to D. M. Andrews Company, Twenty-sixth and Mt. Vernon streets, Baltimore, Md.

Residence, Wardour, Md. \$4,500. Architect, W. R. Russell, 330 North Charles street, Baltimore, Md. Owner, P. S. Morgan, Annapolis, Md. Frame, 2½ stories, slate roof, steam heating, electric lighting. Contract awarded to Bean Brothers, Annapolis, Md.

Apartment Houses (2), Linden avenue, near Brooks Lane, Baltimore, Md. \$40,000. Architect, Henry J. Tinley, St. Paul and Saratoga streets, Baltimore. Owner, Joseph Ber-

man, care architect. Brick, 3 stories, 46x74 feet and 38x68 feet, slate roofs, steam heating, electric lighting, waterproofing. Contract awarded to Fidelity Construction Company, 1906 West Lexington street, Baltimore, Md.

Offices (alts.), Charles and Baltimore

streets, Baltimore. \$2,000. Architect, E. L. Palmer, Roland Park, Md. Owner, The Sun Company, on premises. Frame and brass partitions, steam heating, electric lighting, tile floors. Contract awarded to Edward Brady & Son, Cathedral and Howard streets, Baltimore, Md.

lowhill streets. Geo. C. Taylor (C), 247 North Watts street. Cost, \$380. Shop, brick, 1 story, 15x20 feet, Seventeenth and Callowhill streets.

Morris Realty Company (O), Juniper and Market streets. J. A. Bader Company (C), Wilmington, Del. Cost, \$5,000. Store and dwelling, Fifty-ninth and Market streets.

David Mahan (O), 1828 Foulkrod street. H. A. Leister (C), 1808 Harrison street. Cost, \$800. Stable, brick, 2 stories, 26x62 feet, 1828 Foulkrod street.

Philadelphia Electric Company (O), Tenth and Chestnut streets. Drehman Paving Company (C), 2622 Parrish street. Cost, \$4,000. Coal gunkers (Delaware avenue and Robbins street).

Chas. W. Getty (O), 8 South Fortieth street. Le Roy K. Smith (C), 4007 Chester avenue. Cost, \$400. Dwelling, 4321 Wallace street.

A. S. Elliott (O), 6158 Kingsessing avenue. R. A. Scarborough (C), 5812 Windsor Place. Cost, \$1,020. Store and dwelling, brick, 2 stories, 6123 Woodland avenue.

Bergner & Engel Brewing Company (O), Thirty-second and Master streets. E. E. Hollenback (C), Fifteenth and Race streets. Cost, \$4,000. Shop, concrete floor. Thirty-second and Master streets.

E. P. Boon (O), 3223 North Front street. J. W. Mortimer (C), 3024 E street. Cost, \$1,500. Office, brick, 2 stories, 18x40 feet, 3225 North Front street.

Benj. Rubin (O), 662 North Fifty-second street. W. C. Scull (C), 5705 Master street. Cost, \$900. Store and dwelling, 9x16 feet, brick, 1 story, 662 North Fifty-second street.

H. W. Breyer (O), Ninth and Cumberland streets. Jacob Gaertner (C), 2214 North Third street. Cost, \$1,700. Store and dwelling, 4403 Frankford avenue.

Philadelphia Paper Manufacturing Company (O), River Road, Manayunk. Cost, \$2,200. Storage, 26x103 feet. Brick, 1 story, Nixon and Fountain streets.

W. L. Peilman (O), 706 Race street. Ignation & Glasshofer (C), 467 North Marshall street. Cost, \$625. Store and dwelling, 536 South street.

M. Moister (O), 3931 North Fifth street. Cost, \$500. Shed, 1 story, brick, 16x54 feet, 3931 North Fifth street.

Moore Bread Company (O), 1109 Spring Garden street. A. R. Raff (C), 1635 Thompson street. Cost, \$15,000. Bakery, brick, 3 stories, 31x53 feet, 1109 Spring Garden street.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 30, 1914.—Sealed proposals will be opened in this office at 3 P. M., January 15, 1915, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. Post Office at Gary, Ind. The building is two stories and basement, with a ground area of 9,400 square feet; stone facing; composition roof; fireproof construction. Drawings and specifications may be obtained from the custodian of site at Gary, Ind., or at this office, in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

Miscellaneous Construction News

Library Building, Indianapolis, Ind. \$500,000. Architects (Assoc.) Paul P. Cret, 516 Woodland Terrace, and Zantinger, Borie & edary, Northeast Cor. Fifteenth and Walnut streets, Philadelphia. Owner, City of Indianapolis, Ind. Stone, 1 story. Too early for details. Plans in progress. Ready for bids in about one month.

Court House, Cincinnati, Ohio. \$2,500,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, City of Cincinnati, Court House Commission. Stone, brick, steel and concrete, 5 stories, 260x292 feet, slag and tile roof, tile floors, metal lath, waterproofing and dampproofing, safety treads, metal casements, metal frames and sash (heating and lighting, reserved). Owner will advertise for bids in about two weeks. Bids will be due January 15, 1915.

Court House (add.), St. George, Staten Island, N. Y. Architects, Carrere & Hastings, 225 Fifth avenue, New York City. Owners, Borough of Richmond, N. Y., care of Charles J. McCormick, President. Stone, steel and concrete, 3 stories, 216x224 feet, copper roof, (heating and lighting and flooring reserved), metal lath, waterproofing and dampproofing, safety treads (enameled bricks reserved), iron fences and grilles reserved. Owners taking bids, due December 22nd. J. E. & A. L. Pen-

nock, Land Title Building, Philadelphia, is figuring.

School Building and Boiler House, Providence, R. I. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Brick and stone, fireproof, 5 stories, boiler house, 1 story, 30x74 feet, school 62x129 feet, slag roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing, safety treads, elevators, metal frames and sash, steel doors and frames. Owners taking bids, due December 22nd. The following are figuring: J. Myers & Sons Co., Witherspoon Building; R. C. Ballinger Co., 218 North Thirteenth street, both of Philadelphia; Matthews Const. Co., Princeton, N. J.; Norcross Bros. Co., Worcester, Mass.; H. L. Hemenway, Boston, Mass., and the following of Providence, R. I.: C. B. Maguire Co., William Williams, Borton & Hemenway, Gilbana Building Co.

Sunday School, Portsmouth, Ohio. \$20,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owner, German Evangelical Church, Rev. S. Lindenmeyer, 709 Fifth street, Portsmouth, Ohio. Brick and stone trimmings, 1 story, 56x72 feet, slate roof, steam heating, gas and electric lighting. Contract awarded to C. E. Nourse, 509 Campbell avenue, Portsmouth, Ohio.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Animal Oil Company (O), Mutual Life Building. Eugene Tourison (C), Mutual Life Building. Cost, \$12,000. Factory, concrete, 2 stories, 100x50 feet, Ontario and Richmond streets.

W. Rosenfeld (O), 1807 South Second street. Cost, \$2,200. Dwelling, brick, 2 stories, 15x30 feet. Cost, \$2,600. Dwelling and store, 1805 South Second street.

Chas. Devlin (O), Kensington avenue and Hilton street. Harry Gill, Jr. (C), 2515 Germantown avenue. Cost, \$8,000. Warehouse, 2 stories, 40x72 feet, Kensington avenue and Hilton street.

F. Polio (O), 1220 Flora street. Geo. Rosenberg (C), 1156 North Marshall street. Cost, \$4,000. Two dwellings, brick, 3 stories, 16x40, Algon avenue and Cottman street.

C. A. Wolf (O), Fifteenth and South streets. Samuel Schultz (C), 3113 Montgomery ave-

nue. Cost, \$1,230. Garage, brick, 2 stories, 18x35 feet, 1511 Webster street.

H. M. Potts (O), Hortter and Wissahickon avenue. S. Harding (C), 20 East Johnson street. Cost, \$12,000. Residence, stone, 3 stories, 29x62 feet. Cost, \$1,000. Garage, Hortter and Wissahickon avenue.

Green Hill Farms (O), Philadelphia. Alfred James (C), Bala, Pa. Cost, \$2,575. Garage, stone, 2 stories, 26x36 feet, Church Road and City avenue.

Burton C. Simons (O), Nineteenth and Passyunk avenue. Harry V. Williams (C), 2334 South Twentieth street. Cost, \$422,800. 298 dwellings, brick, 2 stories, Twenty-seventh and Dickinson streets.

F. D. Fleming (O), Franklin Bank Building. Receivers of James G. Doak & Co. (C), Crozier Building. Cost, \$28,000. Factory, brick, 2 stories, 40x98 feet, Front and Florist streets.

Alterations and Additions

Weightman Estate (O), 1524 Chestnut street. J. N. Gill & Company (C), Heed Building. Cost, \$1,200. Apartment House, Twenty-ninth and Chestnut streets.

David Rabinovitch (O), 527 Market street. A. Warshawsky (C), 543 North Seventh street. Cost, \$3,000. Store and dwelling, 53 North Third street.

J. T. Gibson (O), 2510 Oxford street. H. F. Fodge (C), 249 North Twelfth street. Cost,

\$500. Theatre, 1126 South street.

Myers Cohen (O), 1621 Fitzwater street. J. Newborn (C), 826 North Twelfth street. Cost, \$600. Store, 1619 Fitzwater street.

Order of St. Augustine (O), Villa Nova. F. P. Conway & Company (C), Chestnut Hill, Pa. Church, stone, 1 story. Cost, \$1,300. 39 East Chestnut avenue, Chestnut Hill, Philadelphia.

Bell Coal Company (O), Fifteenth and Cal-

Bell Phone, Spruce 6612 Keystone Phone, Race 2799

The Philadelphia Real Estate Record and BUILDER'S GUIDE

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Irving Dillon.....Editor

PHILADELPHIA, PA., DECEMBER 16, 1914.

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Editorial Comment

A survey of building conditions throughout the country shows that November makes about the same relative return as did October—a decrease of 20 per cent. as compared with the same month a year ago. The comparative loss for September was considerably greater, amounting to 32 per cent., so that on the face of things the returns would seem to show a slight steadying of conditions.

To counterbalance this reassuring state of affairs we are told that the shrinkage evidenced in the November returns is practically nation-wide, showing that the causes are in no sense local or limited to any one section or community. Of 71 cities covered by the survey, 56 show comparative losses.

An encouraging feature in an otherwise dark and gloomy situation is the distinctly hopeful trend of trade sentiment now plainly discernible throughout the country. There seems to be apparent everywhere a spirit of healthy optimism, a factor upon which experienced observers predicate hopes for an early return to sane and normal conditions.

The official reports of building permits issued by 71 cities during November, received by the "American Contractor," New York, reach a total of \$32,805,789, as compared with \$41,005,514 for November, 1913. A few cities show decided gains, due usually to special causes. Thus, the phenomenal increase at Oklahoma is caused by the letting of a contract for the \$1,500,000 State House. Cleveland scores an interesting gain, 73 per cent., and other notable increases are those of Peoria, 228 per cent.; San Antonio, 105 per cent.; Tacoma, 326 per cent., and New Haven, 47 per cent.

For the first 11 months of the year the total value of the building operations of the cities are \$585,841,305, compared with \$633,776,574 for the same period last year, a decrease of 7 per cent.

* * *

One of the disturbing factors in the business of getting back to the normal in so far as building is concerned resides in the alarming scarcity of mortgage money. If capital could be induced to take its usual chances, there would be little or no diminution of the customary activity among builders. Innumerable operations wait to be financed, but by reason of an abnormal timidity on the part of investors are unable to make the necessary arrangements for loans. The result is a decided stringency largely artificial in character chargeable to a war thousands of miles away, and in which we have and are likely to have no direct part or interest.

* * *

Suggestions for relieving this condition are as numerous in number as they are ingenious in resource. One of the most sensible that has come to our attention is that put forward by a New York real estate expert, who advances the suggestion that the funds on de-

posit in the postal savings banks be invested in real estate mortgages.

The more we ponder this excellent idea the better we like it. It has every quality, to begin with, that the most cautious of governments could ask for in an investment. It is safe, profitable, practicable and feasible. It would bring relief to the real estate and building markets about as quickly as any scheme that could be devised. One of its great advantages is that it would prove a positive boon to the small house owner because with the government holding the mortgage there would be eliminated the usual and costly process of having the loan renewed every few years.

Under the present order of things postal savings are loaned at 2½ per cent. Put out into mortgages this money would earn at least twice this rate of interest.

The one necessary condition to bring about the reform outlined in the proposition is to have Congress so widen the scope of the postal savings banks as to permit the loaning of the funds on mortgage. From the viewpoint of the small home owner the new idea would be a real blessing because among other things under its operations there would be fewer foreclosures, together with a sense of security in the stability of the holder that is not now so general as surface indications would seem to show. Whether the suggestion will be received with favor at Washington remains to be seen. That it should be, no intelligent student of economic conditions will presume to doubt. Anything, short of sheer paternalism, calculated to relieve the anomalous and menacing condition brought about by the present over-cautiousness of capital deserves to have a hearing at least. It is time to scotch this war bugaboo and buckle down to sober and serious business.

* * *

"The Guide" directed a somewhat prolonged and aggressive campaign a few years back at the practice common to real estate men of using the term "nominal" as a cloak to cover the consideration involved in the transfer of properties. We took the ground at that time that this "nominal" dodge was contrived chiefly for the purpose of concealing taxable values from officials charged with the assessment of valuations, and that it savored of dishonesty. That there was more, much more in the proposition than was dreamed of in our philosophy is shown by a statement just issued by Recorder of Deeds Ernest L. Tustin. Commenting on the difficulties associated with collecting the war tax imposed upon deeds and equities therein, the Recorder is quoted as saying:

"The main objection to the tax among real estate owners and purchasers of real estate, is that it affords an unerring way of learning the true price paid.

"The real estate broker who obtains his

commission on the price accepted, whatever that may be, has no particular interest in withholding the price except that it may possibly, if low, affect the selling price of other properties in the vicinity, listed with him for sale. The seller, as a general rule, cares little whether the price paid becomes public. The buyer, however, is more interested than either in withholding the price paid for three reasons: First, it affords the real estate assessor a certain guide to values, which may result in an increase in taxable valuation of the property; secondly, the price, if known, may affect his prospects of reselling at a profit, if he should desire to do so, and, thirdly, the disclosure of the price really paid may affect the purchaser in placing mortgages on the property.

"The real estate broker, it will be seen, therefore, is not much concerned whether the price becomes public or not, except as it affects the interests of his client, who may be either the buyer or seller. It is a fact well known to every real estate broker that properties are much more frequently sold below their real value than above it, often through the necessities of the seller and his desire for a quick sale. This price, if it becomes known, invariably has a tendency to affect adversely the value of adjoining property. It may even affect the value of adjoining property very much, as the impression may be conveyed to many purchasers that the vicinity has begun to show a decline in value, which may be very far from the truth. It was for the purpose of avoiding the spreading of false impressions and for personal reasons of the buyer or seller that the custom of inserting a "nominal" price in deeds grew up till it has become very common.

"This custom has from time to time been strongly denounced and a former Recorder of Deeds declared his intention of attempting to get a bill through the Legislature compelling the insertion in the deed of the real price as 'a guide to the real estate assessors' it was announced. Such a measure, it is safe to say, would be strongly opposed by real estate interests everywhere, for, however unreasonable it may seem to those who denounce the insertion of 'nominal' prices in deeds, the purchaser of real estate under our present constituted system of property tenure, persists in the idea that the price paid by him for a parcel of real estate no more concerns the public than the price he may have paid for his clothes or his hat. The suggestion, that he should afford the tax assessor every facility to tax him properly is one that may be entertained by a few altruistic individuals, but it is certainly not the view held by the ordinary individual in any walk of life, who purchases real estate for investment or because he needs it for personal use."

* * *

This is about the clearest and most thorough exposition of the attitude of the real estate man with reference to this "nominal" practice that we are able to recall in the course of a somewhat extended study of the subject. It is illuminating from many angles. We

could wish that its arguments were as convincing from each as they are strikingly corroborative of "The Guide's" original contention—e. g., that the main and chief idea of the "nominal" consideration is to mislead the man whose business it is to arrive at values for taxable purposes.

* * *

The subject of restorations, as applied to repairing or rebuilding structures that were erected in periods of architectural development which have become history, has ever been one to inspire discussion. "Perhaps the attitude of the profession toward the work of the restorer," says the "American Architect," "cannot be better expressed than by the following language contained in a resolution offered by Thomas Hastings, at a recent meeting of the Architectural League of New York, anent the partial destruction of Rheims Cathedral:

"To restore this structure further than to roof it and merely preserve what is now left, even if done in good faith, would be a further calamity; for, as we can no longer work in the spirit of its times, we cannot give back to the world this great monument in its original glory.

"To the layman, this acknowledgment of inability to reproduce, even to the extent of repairing, the work of the old masters, appears like a humiliating admission of inferiority, and the matter has been so characterized in the public press. Of course, difference of opinion on this subject has led to countless futile discussions, but to the thoughtful student the statement in the resolution that, as we no longer work in the spirit of its times, 'we cannot give back to the world this great monument in its original glory,' will furnish a complete explanation of why a work of restoration is ordinarily a work of real, although usually unintentional, vandalism.

"Architecture that lives, that is really worth preservation, is generally conceded to be an expression of the homes; something that absorbs and breathes forth the spirit, the thought and the feeling of the period of its creation. If this is true, how utterly impossible it is to restore in the twentieth century a work of the middle ages. The best that could be done would be to copy or to imitate it; and any such attempt always bears its own evidence of spuriousness. Further than that, does not this explanation of the matter remove the contention as to the relative abilities of modern architects (based on the results of their attempt to produce a thirteenth century building) versus those of earlier periods of the world's history, to the realms of irrelevancy

"If architecture is a product and an expression of its time, it should be no more expected that we could produce a medieval building or any part thereof that would not suffer by comparison with a true example than that a thirteenth century architect could have produced a Parthenon.

"The true measure of an architect's capacity is his ability to make his buildings

express the feeling and spirit and meet the requirements of his own age. If he does that as well as architects of former generations, it would seem that he has equal ability, regardless of his willingness to admit that he cannot conjure up and possess himself of the spirit of seven centuries ago."

VENTILATION AND ACOUSTICS.

When a sound passes into air of a different density, part of it is reflected back toward its source and the rest turned in a different direction from that toward which it was originally headed, says "The Pittsburgh Post." The result is that if a sound encounters many such changes of density in its course it may be as seriously weakened as if a wall of glass intervened. Recent experiments show that these facts explain why so many halls are hard to hear in.

In many theatres the air, particularly when the principal source of ventilation is near the footlights forms a sort of curtain between the stage and the auditorium, and makes it very difficult to hear what the actors are saying. A slight motion of the air often has a good effect on a hall's hearing qualities and a nearly ideal condition is approached when there is a current flowing from the stage to the auditorium, carrying the voices of the actors with it.

The acoustics of a hall are poorest when it contains several layers of air of different temperatures and densities, for at each layer sounds are reflected and refracted in a way that weakens their power or causes confusing echoes.

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COVERING CAPACITIES FOR VARNISH.

The following interesting facts are taken from "Varnish Specifications," a booklet issued by Berry Brothers, of Oetroit:

"A gallon of varnish will cover approximately 600 square feet, one coat.

"A gallon of shellac will cover from 500 to 600 square feet.

"A gallon of Spirit Stain will cover from 300 to 400 square feet.

"A gallon of oil stain will cover about 550 square feet.

"From 6 to 8 pounds of Paste Filler made up to volume of one gallon will cover approximately 300 square feet of surface.

"A gallon of Shingletint covers about 160 feet one coat is brushed on; $11\frac{1}{2}$ gallons cover the same surface, two coats. From $2\frac{1}{4}$ to $2\frac{1}{2}$ gallons of shingletint will dip 1,000 shingles and another gallon is enough for a brush coat in addition after the shingles are laid."

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TERRA COTTA IN BUILDING CONSTRUCTION

By H. L. Fitzsimmons, Prince Albert, Sask

In Europe there are numerous examples of architectural terra cotta which have been exposed to the weather for three or four centuries and which are still in good condition, while examples of stonework, subjected to the same conditions, are more or less worn and decayed. There it at the Louvre, in Paris, at the present time some glazed terra cotta, said to have been made by the Assyrians in the sixth century, before the birth of Christ. In other museums there are some vases and other ancient terra cottas from Egypt and Greece, as well as some famous examples of work made in the Middle Ages, some of which are as perfect as if recently made. All these ancient terra cottas tell the story of durability and proclaim terra cotta to be a material worthy of the genius of those artists of antiquity who wrought so beautifully in this medium.

The Surface of Terra Cotta.

The body of all good terra cotta is very much the same, but there are several ways of treating the surface, resulting in products which may be classified as follows: Standard terra cotta, vitreous surface terra cotta, mat-glazed terra cotta, full-glazed terra cotta and polychrome terra cotta. Standard terra cotta has no surface given it, which affects its porosity, a drop of water placed upon it being soon absorbed; it will absorb, also, a great amount of dirt from the atmosphere, and will become very much darker from continual exposure. On some buildings this weathering down is not objectionable; in fact, it sometimes lends a charm, producing an antique appearance, which is often very desirable from an artistic point of view. Some one has said that "time is the greatest artist," and, therefore, when it is desired to produce an aged effect, standard terra cotta should be used. It is, consequently, a good material to use for rustic work in connection with country houses, college buildings, gateways, and certain styles of churches. This class of material is made in any color desired.

Vitreous surface terra cotta has a very thin spray of the surface which vitrifies in the burning process, forming a thin glaze which sheds water. This terra cotta will not absorb much dirt from the atmosphere, as the rain of each storm washes it off. It therefore practically retains its original color. This class of material is made in any color desired and is used more than any other kind at the present time, as it seems to satisfy the greatest number of requirements.

In western cities where soft coal is used, and where, consequently, most buildings are cleaned frequently, any material of a non-porous nature is very desirable, and has been found that glazed terra cotta ranks with the most superior materials in this respect. On

this account white glazed terra cotta is used to a great extent in these cities. The lustre of the glaze is deadened for artistic reasons, the glare of the sunlight on full glazed terra cotta being very severe. This is now done in the process of burning, as it has been found that sand blasting the material neutralizes the purpose of the glaze. This method has, therefore, long been abandoned by the leading manufacturers. There are many examples of buildings constructed of this material in the west and the most notable example in the east is the Plaza Hotel, New York.

For light courts, loggias to office buildings, theatres, interiors of railway stations, train sheds and power houses the full glazed terra cotta is preferable, as it helps illumination and gives a more brilliant effect.

The full glazed terra cotta and mat-glazed terra cotta are made in any color required, and when various colors are used on the same buildings, the material is termed polychrome. The various colors may be applied to the same piece if desired, or each separate color may be kept on a separate piece, if the design will permit.

Color of Terra Cotta.

Within the past twenty years a great impetus has been given to the production of special colors in architectural clay products. In 1885 fully four-fifths of the terra cotta produced in the United States was red. Now there is less of red used than of almost any other color. Buffs and greys of several shades, white and cream-white are now the prevailing colors. By the use of ceramic colors almost any required tone may be produced, and the effect obtained by using glazed terra cotta of various colors in combination, such as blue, yellow, white, purple, brown, old gold, green or red, is often very beautiful. If any particular shade of color not included in the manufacturer's standard samples is desired, the architect should consult with the manufacturer, who will then experiment until the required color is not only produced, but guaranteed to be permanent and free from all tendency to crack. It is generally agreed that there is a great field for this polychromic terra cotta, especially for theatres, restaurants, and buildings of a similar nature, for interiors, loggias, fountains and department stores.

Although the art of using colored terra cotta is very ancient, having been in practice before the Christian era, it is, to some extent, an undeveloped field in this country and offers alluring possibilities in architectural design and construction. It can be used in a very modest and sparing way as well as very profusely; and either in soft tints or in brilliant colors, as the taste of the architect may dictate. Where a rich decorative treatment is required, as in the interiors of public build-

ings, like our great stations, hotels and theatres, polychrome terra cotta can be employed most effectively and economically. In variety and beauty of tones, terra cotta has now reached a very high standard of excellence, and may be used by the architect to express the highest type of his art. The almost unlimited possibilities presented by the judicious application of colored glazes for exteriors as well as for interiors, has awakened an unusual interest in the use of polychrome terra cotta, a building material with superior qualities of resistance against the deteriorating effects of time and of the action of fire and frost.

Terra cotta is not imitation stone and should not be used as such. It is a material having peculiar qualities which give a distinctive character, and therefore, to be successfully used, it should not be employed in such a way that it will appear as an imitation of, or as cheap substitute for some more expensive material. This may be brought about in several ways. There may be used certain forms and certain styles of ornament more characteristic of terra cotta than of any other material.

One architect has evolved a certain style that he has applied to many buildings and which is not suitable to any material other than terra cotta. This may be said of both the form and ornamentation of his buildings. The architects of the Flatiron Building and of the Wanamaker Building in New York, have successfully used this material for its own sake and not as imitation. Another firm of architects have used profusely modelled terra cotta to produce highly ornamental effects not so easily obtainable in other materials, and their recent use of colored terra cotta is typical of this material alone. In the West Street building, New York, the architect has made a design distinctly expressive of the material used. This is noticeable in the ornamentation, in the form of cornices and molding, in the coloring and even in the plain shaft of the building. In the Brooklyn Academy of Music the architects have accomplished this result by the use of color.

In regard to the use of terra cotta, it has been said that it is by the use of polychrome terra cotta that the material has its best opportunity for expressing its individual character. It was so in antiquity, in the Middle Ages, and is so at the present time, because polychrome terra cotta is a material complete in itself, and used for its own sake. It cannot by any means be considered an imitation of, nor substitute for, something better.

Durability of Terra Cotta.

The principal value of terra cotta lies in its durability. When made of the right materials and properly burned it is impervious to water, or nearly so. When glazed it is absolutely impervious, and hence not subject to the disintegrating action of frost, which is a powerful agent in the destruction of stone. It does not "vegetate," as is the case with many stones. The ordinary acid gases con-

tained in the atmosphere of cities have no effect upon it, and the dust which gathers on the moldings is washed away by every rainfall. Underburned terra cotta does not possess these qualities to so high a degree, as it is more or less absorbent. Another great advantage possessed by terra cotta is its resistance to heat, which makes it a most desirable material for the trimmings and ornamental work in the walls of fireproof buildings. Although terra cotta has been used in this country for but a comparatively short time, it has thus far proved very satisfactory, and the characteristics above indicated would point to its ranking in common with the better qualities ing materials.

Inspection and Methods of Setting.

A sharp metallic, bell-like ring and a clean, close fracture are good proofs of compactness and strength. Perfection of form is in the highest degree essential, and can result only from a homogeneous material and a thorough and experienced knowledge of firing. No spalled, chipped or warped pieces of terra cotta should be accepted, and the pieces should be so hard that they will resist the scratching of bricks, with the most desirable of build-with the point of a knife. The blocks should be of uniform color also, and all mouldings should come together perfectly at the joints. Terra cotta with a vitreous surface and mat glazed terra cotta should be so non-absorbent that water will lie in drops on its surface without being quickly absorbed. Full glazed terra cotta should be so non-absorbent that ink will not penetrate the surface, and may be entirely washed away with water.

Terra cotta should always be set in either natural cement or Portland cement, mixed with sand, and in about the same way as stone is set. As soon as set, the outside of the joints should be raked out to a depth of three-quarters of an inch to allow for pointing and to prevent chipping. The terra cotta should be built up in advance of the backing, one course at a time, and all voids, except those projecting beyond the face of the wall, should be filled with grout or mortar, into which bricks should be forced to make the work as solid as possible. All blocks not solidly built into the walls should be anchored with galvanized iron clamps, the same as for stonework, and, as a rule, all projecting members over 6 inches in height should be anchored in this way. After the walls are up the joints should be pointed with Portland cement colored with a mineral pigment to correspond with the color of the terra cotta. The pointing is done in the same way as in stonework, except that the horizontal joints in all sills and washes of belt courses and cornices, unless covered with a roll, should be raked out about two inches deep, calked with oakum for about one inch and then filled with an elastic cement.

Disadvantages and Cost of Terra Cotta.

One of the principal objections to the use of terra cotta is the time required to obtain it, especially when the building is some dis-

tance from the factory. About six weeks are required for the production of terra cotta of the ordinary kind, and the architect should see that all the drawings from the terra cotta work are completed and delivered to the maker at as early a stage in the work as possible, so that he may have ample time to produce it. This will obviate any delay if the architect's drawing and instructions are clear, distinct and complete, as it takes longer to obtain the steel construction work than it does to make the terra cotta. Most of the delay in obtaining terra cotta is really due to the fact that prompt and careful attention is not always given to the preparation of the terra cotta drawings and instructions. Small pieces of terra cotta may sometimes be obtained within two weeks from the receipt of the order, when the molds are already on hand. It is always more expensive, however, to attempt to turn out work in such short order, and inexpedient on account of the risks in forcing the drying.

Terra cotta is generally less expensive than stone, and ornamental work costs in stone about three times as much as it does in terra cotta. Being lighter in weight, the freight charges are less. In large buildings the use of terra cotta reduces the cost of the steel construction, because when it is used on the exterior the steel may be about one-third smaller and lighter, thereby reducing the cost proportionately. This saving is an important item in large structures. The cost of erecting terra cotta is less than that of erecting stone, two stories of an all terra cotta exterior being sometimes put in place in the same time that it takes to set one story of stone. The advantage in point of cost in favor of terra cotta is greatly increased if there is a large proportion of molded work, and especially if the moldings are enriched. The use of terra cotta for trimmings, and especially for heavy cornices, in place of stone, often reduces the cost of the walls and foundations, as the weight of the terra cotta will be much less than that of stone, and the walls and foundations may be made lighter in consequence.

Weight and Strength and Tests.

The weight of terra cotta in solid blocks averages 122 pounds per cubic foot. When made in hollow blocks 1 1-2 inches thick, the weight varies from 65 to 85 pounds per cubic foot, the smaller pieces weighing the most. For pieces 12 by 18 inches or larger on the face, 70 pounds per cubic foot should be a fair average. The crushing strength of terra cotta blocks in 2-inch cubes varies from 5000 to 7000 pounds per square inch. Hollow blocks of terra cotta, one foot high, unfilled, have sustained 186 tons per square foot. From these and other tests I would place the safe working strength of terra cotta blocks in the wall at 5 tons per square foot when unfilled, and at 10 tons per square foot when filled solid with brickwork or concrete. If it is desired to test the strength of special pieces, two or three small pieces should be broken

from the blocks and ground to 1-inch cubes, and then tested in a machine. Should the

average results fall much below 6000 pounds the material should be rejected.

FEES A REDUCTIO AD ABSURDUM

The shopkeeper who offered his wares below cost and claimed to make his profit by selling them in big quantities, had nothing on the architectural profession for business acumen, for our schedule of minimum charges is founded on just such logic. For example: We're paid on a percentage of the cost, but the capable architect is the one who keeps down the cost. Therefore, by doing his best he reduces his compensation. Likewise his big fees are on things where he does little work—on such things as factories—and he gets his little fees where he does a lot of work, like designing country houses. But the poor architect does factories and the good architect does country houses. The client wants to keep the cost down, and his architect must help him in this, but the less the cost of a particular job, the less is his compensation and the less is likely to be the beauty of its execution from which the architect obtains his reputation.

It is obvious that the architect's fee should increase, not decrease, with any legitimate reduction in the most of the work, because it ought to be true that the owner and his agent gain or lose together. The only reason that I have been able to find for the present illogical scheme is that you have got to have a scheme. It is like Adam's lucid reason for naming one of the animals. "It jumps like a frog, it looks like a frog, so I'll call it a frog." It is a scheme which goes along the line of least resistance, for the most obvious thing was eagerly seized upon as something to which to hitch a fee. It would have been just as logical to hitch the fees to the owner's bank roll or the amount he gave to charity. The business-like basis is clearly he cost to the architect of getting out the work plus a reasonable profit. The cost to the architect bears little relation to the cost to the owner of the job itself. I will illustrate this by a curious coincidence in my practice.

I received a letter from a prospective client asking for my charges on a library which he was going to add to his house. No description of library or house was given; and my answer, as would have been yours, was the sending to him of the Institute schedule of minimum charges which were here interpreted to be those which apply to alteration work. A contract was accordingly entered into at ten per cent. The work consisted of duplicating a wing of the beautiful limestone building which was his house, and putting therein a library with costly book-stacks and marble floor on the first story and above it a picture gallery and music room, into which were built Italian marbles which the owner had collected; and a big pipe organ. He cheerfully paid me the tithe of the cost for my part of

the joyful job of construction with few drawings and competent builders enthusiastic because this simple, costly edifice was built by them on a percentage basis.

Another client had seen the library addition and wrote in for my terms. In answer I sent him the same schedule of minimum charges and found that the work was to be an isolated building at the end of a pergola leading from the owner's study in the house. This, of course, was a six per cent. job and a contract with this owner was accordingly drawn. In place of Mr. Stone's twenty thousand volumes, this was to accommodate only half the number. The house was an elaborately designed piece of patterned brickwork and the library was also to be of brick. We will call the owner Mr. Brick. It was his idea, and a good one, to have me design a brick interior for the library as well. He had no contribution as had the collector, but had very pronounced opinions on such matters as the woodwork and the timbered roof. He was, moreover, a vacillating, critical and captious man. He was also a shrewd bargainer and got a cut-throat contract on the work.

This operation took more time to execute than the addition for Mr. Stone. It required five times the number of drawings, twice the number of visits of inspection, and constant wrangling with a too-low contractor. It cost my office three times what the Stone job did and ate up more than my entire commission; but the building cost the owner hardly as much as were my fees on the other operation. I got four jobs from enthusiastic admirers of the Stone collection of Italian marbles, and not one from the less prominent friends of Mr. Brick, and Mr. Brick himself turned on me all the ill-feeling engendered by his troubles with his builder. Yet both operations were carried on strictly according to the schedule of minimum charges. Extreme cases, you say, but just look at your books, if you keep books, and you'll find the same kinds of extremes and you'll find also that they meet in every year you've been in business.

I'll tell you a little story. His farmer neighbor stopped one day to chat with The Palmer about his pigs. "I want teu know now, The, why 'tis you raised sich a power of pigs, and sot sich a trifle of taters." "Wal, Zeke, it's like this; the pig crop sells the best, and besides I'd have to plant and tend the taters, but nater and the sow does most of that for pigs. But I've noticed and have been ameaning to ast you about it tew, knowin' what I'm tellin' you about pigs and taters, why be it that you set sich store by taters?" "Wal, I don't hanker arter pork, and I'm jest a leetle partial to taters," an-

swered Zeke; "and I allow that's ben about my main idee."

I've illustrated the illogical basis of architectural fees, I've stated a better business basis, and I've told you a little story to show you why we often work for no money consideration. I am too poor a business man to show you how to correct your charges according to your cost. Who will be the prophet to lead architects to better profits?—"Tom Thumback" in "Architecture and Building."

ANNOUNCEMENT OF SCHOOL OF ARCHITECTURE.

The announcement of the Department of Architecture of the University of Michigan, Ann Arbor, Mich., has just been received, and seems to present material not usually found in literature of this description. In addition to a presentation of work by students of the Department, and a synopsis of the requirements of the department, both for admission and for graduation, there is published a general statement designed to give information to prospective students and their parents regarding the profession of architecture, the services performed by the architect, his training and the general outlook for the profession. This statement indicates, in addition to enumerating the functions of an architect, the methods and training properly employed to prepare him to discharge those functions. It also points out, to some extent parenthetically, many of his duties and obligations, which, it is feared, have too often been overlooked in the general hustle and confusion incident to a professional career.

As to the outlook for the architect, it is stated that in no time of the history of the United States has there been so much interest as is now manifested in good architecture. Classes of buildings, which formerly were hardly considered from an artistic point of view—such as factories, warehouses and the like—are now being designed by architects. Many large corporations have come to a realization of the value of buildings which are at once adequate, attractive and interesting. The art development of which architecture forms but a part, has barely begun in this country. So long as this country continues its marvellous growth, highly trained men will be needed to give form to building projects of the most varied character.

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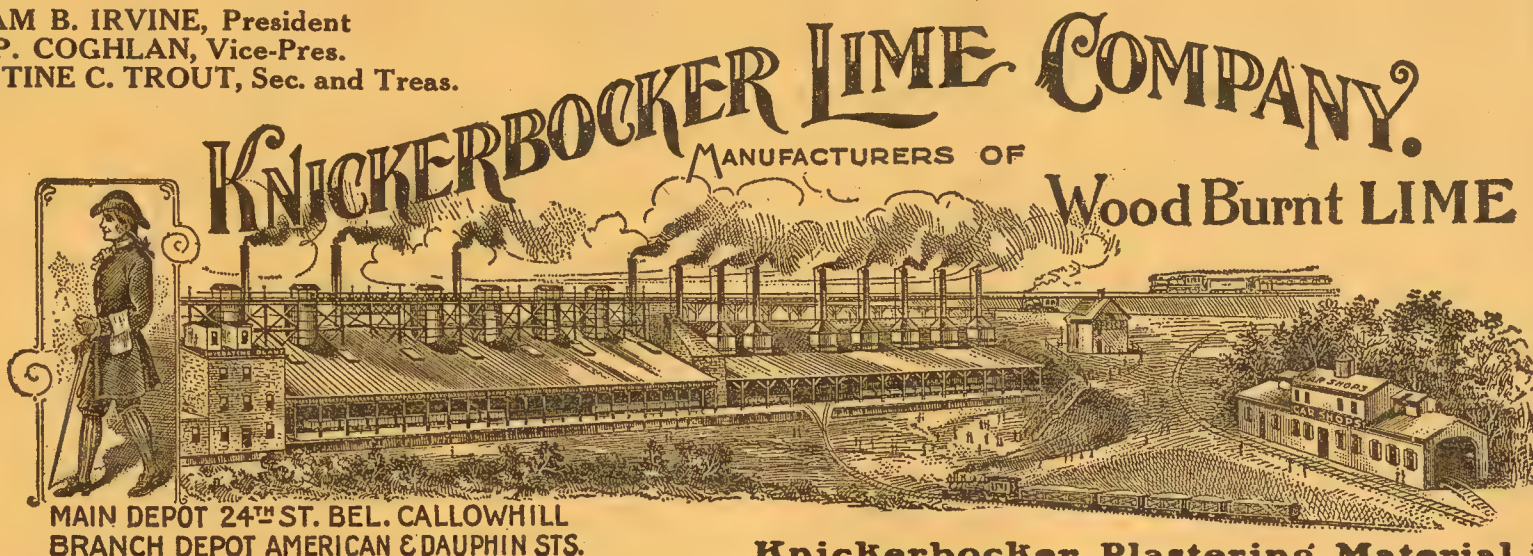
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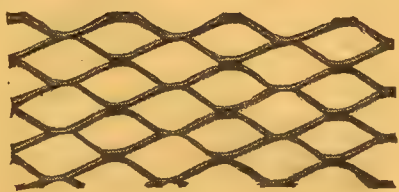
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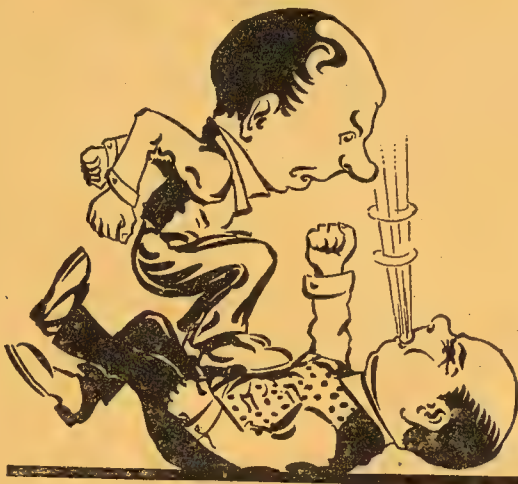
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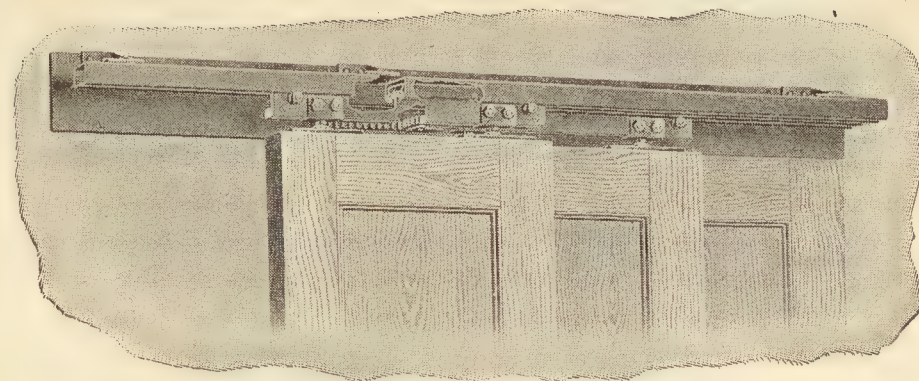
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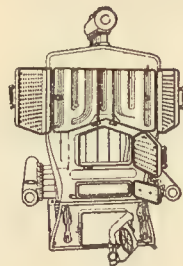
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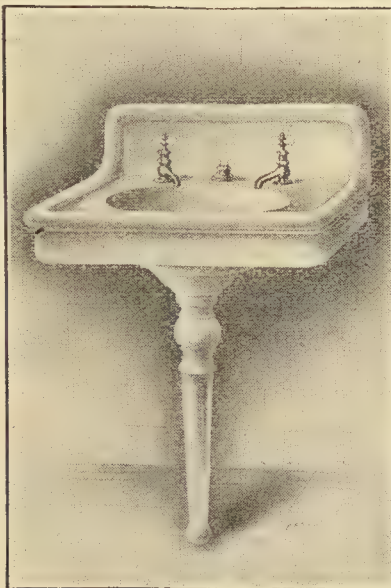


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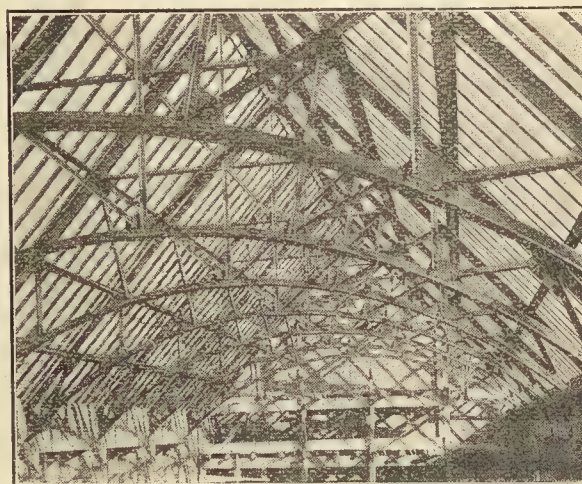


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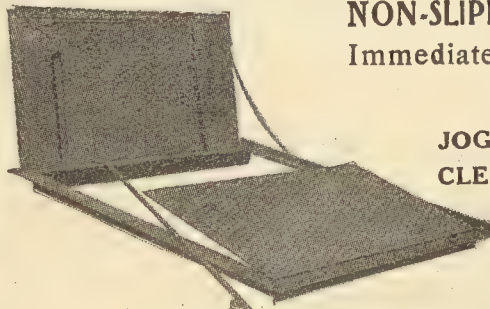
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Vol. XXIX., No. 51.

PHILADELPHIA, WEDNESDAY, DECEMBER 23, 1914.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Brewery (alts.), Twenty-ninth and Parrish streets, Philadelphia. Architect, Charles H. Caspar, Fifteenth and Arch streets, Philadelphia. Owners, Louis Bergdoll Brewing Co., on premises. Consists of alterations for shipping and receiving department (electric work and elevator reserved). Architect has received bids.

Dairy, Forty-eighth and Parrish streets, Philadelphia. Architects, Shore & Dodge, 608 Chestnut street, Philadelphia. Owner, Robert E. Powell, 884 North Forty-eighth street, Philadelphia. Brick and steel, terra cotta and concrete, 3 stories, 80x125 feet, slag roof (steam heating and electric lighting reserved). Architect taking revised bids, due December 21st. The following are figuring: Doyle & Co., 1519 Sansom street; Charles Gilpin, Harrison Building; Bailey-Lush Co., 201 North Broad street; Charles McCaul Co., 1713 Sansom street; William R. Dougherty, 1610 Sansom street, all of Philadelphia.

Police Station, Fire Station and Patrol Garage, Twenty-second and Hunting Park avenue, Philadelphia, \$150,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, City of Philadelphia, care of Department of Public Safety, City Hall. Brick and terra cotta, fireproof, 3 stories, 120x150 feet, slate and slag roof, steam heating, electric lighting. Owner taking bids, due December 28th at noon. W. W. Anstine Co., 1214 Filbert street; H. E. Baton, Twelfth and Sansom streets; Thomas M. Seeds, 1207 Race street, all of Philadelphia, are figuring.

Public Comfort Station and Park Repair, various locations. Architect, Louis E. Marie, City Hall, Philadelphia. Owner, Department of Public Works, care of Bureau of City Property, City Hall, Philadelphia. Brick and frame, 1 story, slate roof, consists of paving and repairs. Owner taking bids, due December 30th. The following are figuring: P. J. Hurley, 1233 Cherry street; E. C. Durell, 1713 North Twenty-fourth street; Mitchell Bros., 2125 Race street; F. Roe Searing, Perry Building; F. W. Van Loon, Denckla Building; Anstine & Co., 1218 Filbert street, all of Philadelphia.

Residence and Garage, 4322-24 North Broad

street, Philadelphia. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Mrs. Annie K. Ledig, 1705 Allegheny avenue, Philadelphia. Brick and stone, 3 stories, 24x66 feet; Garage, 1 story, 24x24 feet; slag and tile roof, hot water heating, gas and electric lighting, oak floors. Architect taking bids, due December 28th. The following are figuring: George A. Boyd, Twenty-fifth and Willow Grove avenue; H. E. Baton, Twelfth and Sansom streets; Burd P. Evans & Co., Thirteenth and Wallace streets; Fred Elvidge & Sons, 5522 Germantown avenue; A. L. Fretz & Sons, 1222 Chancellor street; Ketcham & McQuade, 1029 Brown street; Philip Haibach Contracting Company, Twenty-sixth and Thompson streets; A. R. Raff, 1635 Thompson street; H. P. Schneider, 3715 Old York road; Freund-Siedenbach Co., Bulletin Building; George Kessler Contracting Co., Drexel Building, all of Philadelphia, and Charles C. Pace, Merion, Pa.

Picture Theatre (alt. and add.), 4817 North Broad street, Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owners, Logan Amusement Company, on premises. Brick, concrete and terra cotta, fireproof, 1 story, 50x150 feet, slag roof, steam heating, electric lighting, metal lath. Architect taking bids.

Warehouse (alt. and add.), 226 North Tenth street, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, Harry L. Halpern, 226 North Tenth street, Philadelphia. Brick, 3 stories, 20x65 feet, slag roof, hot air heating, electric lighting, elevator. Plans in progress. Architects will take bids in one week.

Store and Storehouse (alt. and add.), 407 Fitzwater street, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, Louis Dubrow, 1205 South Fourth street, Philadelphia. Brick, 3 stories, 18x25 feet, slag roof. Plans in progress.

Residence and Garage, St. Martins, Philadelphia, \$25,000. Architect, S. Davis Hawley, 2nd, 3122 West Penn street, Germantown. Owner's name withheld. Stone, 2½ stories, 35x80 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Plans in

progress. Bids in about one month.

Stable, 415 Christian street, Philadelphia. Architect, M. Haupt, Drexel Building, Philadelphia. Owner, Samuel Tucker, on premises. Brick, 1 story, 42x56 feet, slag roof. Plans completed. Owner will take bids.

Saloon (alt. and add.), Fiftieth and Market streets, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, James Graham, on premises. Brick, 2 stories, 20x50 feet, slag roof, electric lighting (vapor vacuum heating reserved). Architect has received bids.

Ash Disposal Plant, 2610-14 Callowhill street, Philadelphia. Architect, private plans. Owner, Edwin H. Vare, Lincoln Building, Philadelphia. Brick, 1 story, 50x60 feet, slag roof. Builder taking sub-bids. Builder, Harry D. Prettyman, 2603 South Broad street, Philadelphia.

New Wall, Independence Square, Philadelphia. Architect, E. T. Stewardson, 320 Walnut street, Philadelphia. Owner, Department of Public Works, City Hall, Philadelphia. Brick and concrete, waterproofing. Owners have received bids.

Factory (add.), 1505 Wharton street, Philadelphia. Architect, C. E. Oelschlager, Harrison Building, Philadelphia. Owners, J. R. Bunting Bedding Co., on premises. Brick, 4 stories, 28x185 feet, slag roof (heating and lighting reserved), rolling steel shutters. Owners have received bids.

Residences (52), Front and Jackson streets, Philadelphia. Architect, private plans. Owners, Solomon Bros., Eighth and Snyder avenue, Philadelphia. Brick, 2 stories, 14x30 feet, slag roof, hot air heating, electric lighting. Work about to be started.

Inn, 1301 to 1307 Ridge avenue, Philadelphia, \$25,000. Architect, Carl P. Berger, 1418 South Penn Square, Philadelphia. Owner, Estate of J. F. & R. S. Betz, 415 Callowhill street, Philadelphia. Brick, 3 stories, 105x57 feet, slate and tin roof, electric lighting, steam heating, metal ceilings, bar fixtures, marquee and fire escapes. Revised plans in progress.

Store Building, Second and Church streets, Philadelphia. Architects, Sauer & Hahn, 1112

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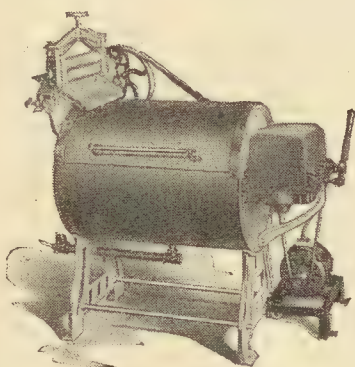
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Chestnut street, Philadelphia. Owner, Harry Fliegelman, 36 North Second street, Philadelphia. Brick, 4 stories, 60x100 feet, slag roof, steam heating, electric lighting, maple floors, rolled steel sash. Architects have received revised bids.

Picture Theatre and Sores, Broad and Rockland streets, Philadelphia. Architect, A. F. Schenck, Real Estate Trust Building, Philadelphia. Owner, Clarence S. Shilcock, 1344 Rising Sun Lane, Philadelphia. Brick and terra cotta, 1 story, 55x177 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Architect taking bids, due December 28th. The following are figuring: F. A. Havens Co., 845 North Nineteenth street; Stacey Reeves & Sons, 2011 Market street; Smith-Hardican Co., 1606 Cherry street; W. John Stevens, Wyncote, Pa.; A. Raymond Raff, 1635 Thompson street; William R. Dougherty, 1610 Sansom street; Harry Gill, Jr., 2515 Germantown avenue; J. Richard Jackson, Perry Building, all of Philadelphia.

Residence (alt. and add.), 1717 Pine street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Seltzer & Wallace, 400 Chestnut street, Philadelphia. Brick and limestone, 4 stories, 16x60 feet, slag roof, hot water heating, electric lighting, hardwood floors, metal lath. Architects taking bids, due December 24th. John McKenna & Sons, 1032 Race street; M. L. Conneen & Co., 2015 Cuthbert street; Alex. Chambley, 243 South Tenth street, and Smith-Hardican Co., 1606 Cherry street, Philadelphia, are figuring.

Firehouse, Byberry, Philadelphia, \$28,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, City of Philadelphia, City Hall, Philadelphia. Brick, 1 story, slag roof, steam heating, electric lighting. Plans completed. Owners will take bids in a few days.

Residence, Fifty-second and Overbrook avenue, Philadelphia, \$6,000. Architect, private plans. Owner, John H. McClatchy, Land Title Building. Stone, 3 stories, 26x37 feet, shingle roof, hot water heating, electric lighting. Work about to be started.

Houses (2), American and Manton streets, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Own-

er, Louis Cohen, 417 Christian street, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, hot air heating. Plans in progress. Owner ready for bids December 24th.

Chicken House, 904 South Ninth street, Philadelphia. Architects, B. J. Medoff & Sons, 524 Walnut street, Philadelphia. Owner, Samuel Ingalia, 904 South Ninth street, Philadelphia. Brick, 2 stories, 18x20 feet, slag roof, cement floors. Plans in progress. Ready for bids on December 23rd.

Boiler House, Hancock and Berks streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Philadelphia Dye Works, on premises. Brick, 1 story, slag roof. Plans in progress.

Residence, Somerton, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Harold Houseman, Byberry road and Bustleton pike, Philadelphia. Frame, 2 stories, 25x50 feet, shingle roof, electric lighting (heating and floors reserved, weather strips, artesian well and fences reserved). Architects taking bids, due December 28th. The following are figuring: William R. Dougherty, 1610 Sansom street; Loos & Dothard, 1438 South Penn Square; Specht & Sperry, Heed Building; Joseph Ashby, Second street pike, all of Philadelphia.

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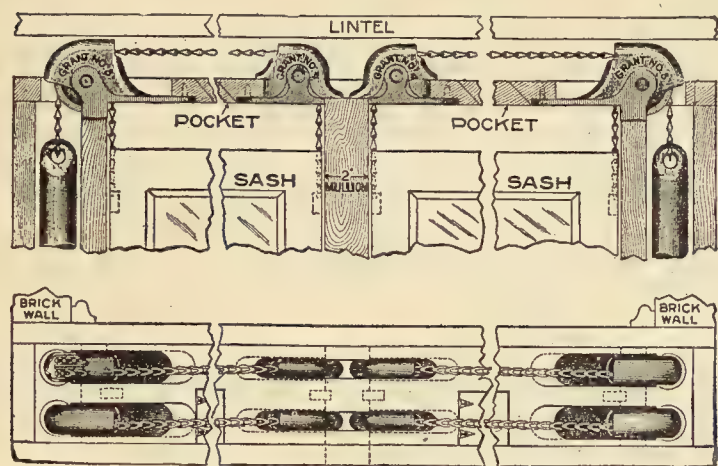
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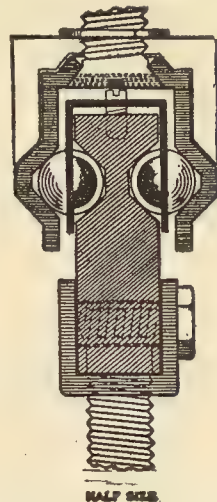
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Wall, Thirty-fifth and Gray's Ferry road, Philadelphia. Architect, private plans. Owners, Harrison Bros. Co., Inc., on premises. Brick, expanded metal and cement coating, 90 feet long and 43 feet high. Contract awarded to Murphy Company, 263 South Tenth street, Philadelphia.

Garage, 315 Rex avenue, Philadelphia, \$1,250. Architects, Furness Evans Company, Fourth and Chestnut streets, Philadelphia. Owner, Hamilton Disston, 315 Rex avenue, Philadelphia. Stone, 1 story, 19x21 feet, slag roof. Contract awarded to George S. Roth & Sons, 230 East Gravers lane.

Store and Dwelling (alt.), 501 South Fifth street, Philadelphia, \$1,400. Architect, private plans. Owner, Harry Uran, 509 South Fifth street, Philadelphia. Brick, 2 stories. Contract awarded to B. Bornstein, 412 South Fifth street, Philadelphia.

Garage, Norris and Gratz streets, Philadelphia, \$800. Architect, private plans. Owner, Harry Green, 2134 Germantown avenue, Philadelphia. Brick, 1 story, 17x23 feet, slag roof. Contract awarded to H. P. Schneider, 3712 York road, Philadelphia.

Store and Warehouse (alt. and add.), 1906 Market street, \$5,000. Architect, private plans. Owner, L. S. Harris, 1939 North Thirty-third street, Philadelphia. Brick, 3 stories, new front and interior alteration. Contract awarded to J. A. Bader & Co., Wilmington, Del.

Residences (5), Jasper and Clearfield streets, Philadelphia, \$7,000. Architect, private plans. Owner, Horace Linton, Ruth and Clearfield streets, Philadelphia. Brick, 2 stories, 14x30 feet, slag roof, hot air heating, electric lighting. Contract awarded to Harry Moyer, 2029 East Wishart street, Philadelphia.

Garage, 6152 Lebanon avenue, Philadelphia, \$1,400. Architect, private plans. Owner, Carl G. Barth, 6151 Columbia avenue, Philadelphia. Stone, 1 story, 20x22 feet, slag roof. Con-

tract awarded to Milton W. Young, Overbrook, Philadelphia.

Police and Fire Station (alt and add.), Sixty-first and Thompson streets. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, Department of Public Safety, City Hall, Philadelphia. Brick and stone, 3 stories, slate roof, steam heating, electric lighting, composition floors. Lowest bid submitted by Eugene Tourison, 1001 Chestnut street, Philadelphia, \$6,550.

Residence, 3950 North Broad street, Philadelphia, \$4,400. Architect, Frank V. Nickels, Harrison Building, Philadelphia. Owner, Harry Scheiry, 3941 North Broad street, Philadelphia. Brick, 2½ stories, 16x56 feet, slag roof, vapor vacuum heating, electric lighting, oak floors. Contract awarded to George A. Boyd, Twenty-fifth and Willow Grove avenue, Philadelphia. (Note change.)

Store and Dwelling, Sydenham and Courtland streets, Philadelphia, \$5,000. Architect, private plans. Owner, R. J. Keller, on premises. Brick, 2 stories, 19x70 feet, slag roof, hot water heating, electric lighting. Contract awarded to C. H. Eckman, 2126 North Sixteenth street, Philadelphia.

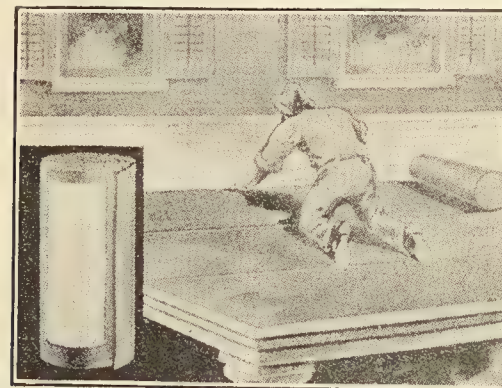
Residence, Helen and Tioga streets, Philadelphia, \$1,700. Architect, private plans. Owner, F. M. Faulkner, 2331 East Allegheny avenue, Philadelphia. Brick, 2 stories, 14x25 feet, slag roof, hot air heating. Work about to be started. Builder, owner.

Residences (2), 423 South Sixth street, Philadelphia, \$4,000. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Bethel Church, Sixth and Lombard streets, Philadelphia. Brick, 3 stories, 16x30 feet, slag roof, hot air heating, electric lighting. Contract awarded to Killen & Brightly, Real Estate Trust Building, Philadelphia.

Residence, Fox Chase, Philadelphia, \$4,400. Architect, private plans. Owner, C. W. Overpeck, 7984 Second street pike, Philadelphia.

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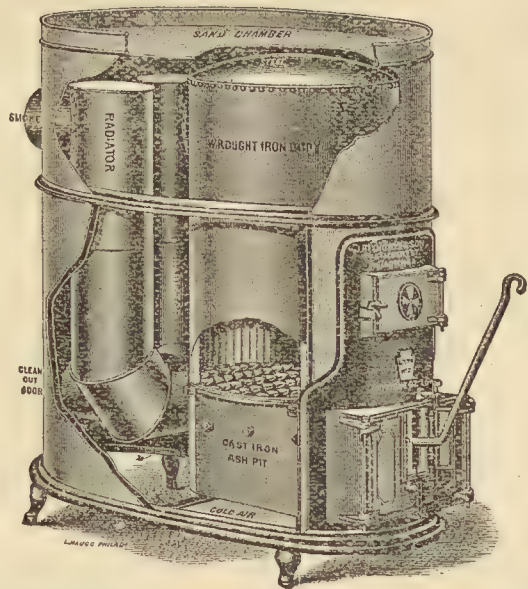
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Stone, 2½ stories, 16x30 feet, slate and tin roof, hot water heating, gas and electric lighting. Contract awarded to Joseph Ashby, Second street pike, Fox Chase, Philadelphia.

Show Rooms (alts.), Broad and Wallace streets, Philadelphia, \$1,100. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Automobile Trade Association, Broad and Callowhill streets. Consists of fitting up first floor for automobile show, carpenter work, painting, decorating and electric work, plumbing work. Contract awarded to Joseph Bird Company, 213 North Eleventh street, Philadelphia.

Store Building (alt. and add.), 42 North Seventh street, Philadelphia, \$2,500. Architect, private plans. Owners, H. Burstein & Co., 709 Filbert street, Philadelphia. Brick, 3 stories, 18x24 feet, slag roof. Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia.

Factory (alt. and add.), Mascher and Lehigh avenue, Philadelphia, \$4,200. Architect, private plans. Owner, Estate of E. Hill, 1617 North American street, Philadelphia. Brick, 4 stories. Consists of general repairs. Contract awarded to F. G. English, 1608 North Carlisle street, Philadelphia.

Garage, 415 North Sixty-third street, Philadelphia. Architect, J. Vaughn Tunnell, 5548 Haverford avenue, Philadelphia. Owner,

Clifford W. Miller, 5716 West Girard avenue, Philadelphia. Brick, 1 story, 20x200 feet, slag roof, steam heating, electric lighting. Contract awarded to J. Richard Jackson, Perry Building, Philadelphia.

Synagogue, Fifty-eighth and Walnut streets, Philadelphia, \$45,000. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Congregation Beth-El, care of S. M. Strauss, 4932 Locust street. Stone, 2 stories, 75x90 feet, tile roof, steam heating, electric lighting, tile floors, metal lath, waterproofing. Contract awarded to Lam Building Company, 1001 Wood street, Philadelphia.

Store Building, Second and Church streets, Philadelphia. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, Harry Fliegelman, 36 North Second street, Philadelphia. Brick, 4 stories, 60x100 feet, slag roof, steam heating, electric lighting, maple floors, rolled steel sash. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Nurses' Home (alt. and add.), Germantown avenue and Chestnut Hill avenue, Chestnut Hill, Pa., \$4,000. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Chestnut Hill Hospital, on premises. Frame, 1 story, 32x52 feet, slate roof, steam heating, electric lighting. Contract awarded to W. J. Gruhler, 219 High street, Germantown.

PENNSYLVANIA

Construction News

Bank Building, Lewisburg, Pa., \$40,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, Lewisburg Trust and Safe Deposit Company, Lewisburg, Pa. Marble and stone, 1 story, 40x80 feet, composition roof, steam heating, electric lighting, marble and tile work. Architect taking bids, due January 12th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; Wm. R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; Charles McCaul Company, 1713 Sansom street; H. L. Brown, 1714 Sansom street; Metzger & Fisher, Denckla Building; H. E. Grau Company, 1707 Sansom street; H. E. Baton, Twelfth and Sansom streets, all of Philadelphia; Fink & Seidle, Reading, Pa.; Albert Boyer, Northumberland, Pa.; Shamokin Lumber Company, Shamokin, Pa.

Power House and Coal Storage, Bristol, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, William H. Grundy & Co., Bristol, Pa. Brick, steel and reinforced concrete, 1 and 2 stories, 111x175 feet, cement tile roof, steel sash, electric light. Plans in progress.

Post Office (add.), Reading, Pa., \$100,000. Architect, Oscar Wenderoth, Treasury Department, Washington, D. C. Owner, United States Government, Treasury Department, Washington, D. C. Brick, stone and steel, fireproof, 3 stories. Plans in progress.

Electric Plant, Kutztown, Pa., \$25,000. Engineer, not yet selected. Owner, Borough of Kutztown, care of B. B. Druckenmiller, President of Councils, Kutztown, Pa. Brick, 1 story, slag roof, steam heating, electric light.

LIGHTING FIXTURES

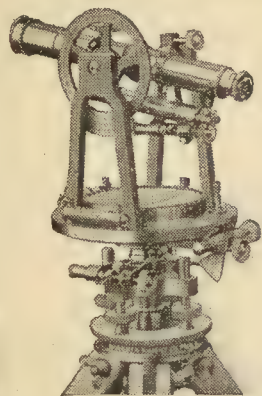
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ing, concrete floors. Owners will soon select engineer.

Stock Pens, Herrs Island, Pittsburgh, Pa. Architect, private plans. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick, steel and concrete, 1 story, 185x518 feet, slag roof, electric lighting. Owners taking bids, due December 30th. Roydhouse-Arey Company, Fidelity Building, and J. E. & A. L. Pennock, Land Title Building, Philadelphia, are figuring.

Storage Building, Marcus Hook, Pa. Architect, private plans. Owners, United Roofing and Manufacturing Company, Morris Building, Philadelphia. Brick and steel, 1 story, 67x73 feet, galvanized roof. Owners taking bids, due December 23rd. W. W. Lindsay, Harrison Building; Charles Gilpin, Harrison Building, and A. Raymond Raff, 1635 Thompson street, Philadelphia, are figuring.

Garage, Moylan, Pa. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, W. Roger Fronefield, Maylon, Pa. Frame and stone, 1 story, 18x23 feet, shingle roof. Architect taking bids. Herbert Walton, Moylan, Pa., and William H. Ford, Media, Pa., are figuring.

Store Building, Christiana, Pa., \$6,000. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, Milton W. Young, Overbrook, Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting. Owner is taking sub-bids.

Apartment House (alt. and add.), Easton, Pa., \$12,000. Architect, E. H. Wenzelberger, Easton, Pa. Owner, Simon Novick, 142 Northampton street, Easton, Pa. Brick, 4 stories, 30x100 feet, slag roof, hot water heating, gas and electric lighting, tile work. Owner taking bids.

Storage Building, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Brown-Borhek Company, Bethlehem, Pa. Brick and frame, 2 stories, 24x100 feet, slate roof, electric lighting, concrete floors. Plans in progress.

Residences (8-), Allentown, Pa., \$70,000. Architect, A. W. Leh, South Bethlehem, Pa. Owner, H. A. Butterweck, Allentown, Pa. Brick, 2½ stories, 16x57 feet each, slate, slag and copper roofs, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Office Building, Bethlehem, Pa., \$10,000. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Vanderstucken-Ewing Const. Co., Bethlehem, Pa. Brick, 2 stories, 28x56 feet, slag roof, steam heating, electric lighting, composition floors, tile work. Plans in progress.

Residence (alts.), Fountain Hill, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, J. Davis Broadhead, Wilbur Trust Building, Bethlehem, Pa. Stone and brick, 2½ stories, slate roof, electric lighting, hardwood floors, tile work. Plans in progress.

Apartment House, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Leo Tabachemick, South Bethlehem, Pa. Brick, 2 stories, 24x48 feet, slag roof,

hot water heating, gas and electric lighting, hardwood floors, tile work, dampproofing. Plans in progress.

Residence (alt. and add.), Allentown, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Dr. Martin Estate, Allentown, Pa. Brick, 2 stories, 22x28 feet, slate roof, hot water heating, gas and electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Jeffersonville, Pa. Architect, H. R. Stackhouse, Drexel Building, Philadelphia. Owner's name withheld. Hollow tile and plaster, 2½ stories, 34x40 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Residence, Drexel Hill, Pa., \$7,000. Architect, C. H. Woolmington, 36 North Fifty-first street, Philadelphia. Owner, Dr. Hiram A. MacIntosh, Drexel Hill, Pa. Stone and frame, 2½ stories, 40x41 feet, shingle roof, electric lighting, hardwood floors (heating reserved). Architect taking bids, due December 28th. H. E. Grau Company, 1709 Sansom street, Philadelphia, are figuring.

High School, Coaldale, Pa., \$75,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Coaldale, Pa. Brick, 2 stories, 90x120 feet, slate roof, steam heating, electric lighting. Plans in progress. Bids in two weeks.

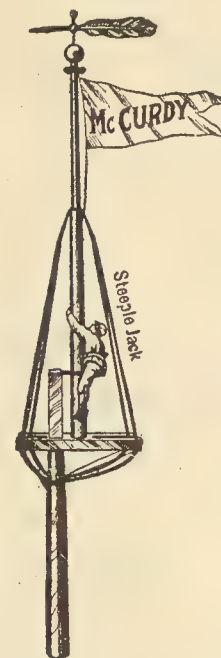
School Building, Ivyland, Pa. Architect, Harry Parker, Drexel Building, Philadelphia. Owners, Board of Education, Ivyland, Pa. Brick, 1 story, 35x55 feet, shingle roof, hot air heating, electric lighting. Plans in progress.

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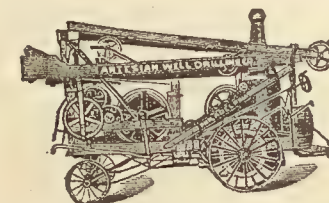
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PENNSYLVANIA

Contracts Awarded

Residence, Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Harry Hallman, Pottstown, Pa. Frame and plaster, 2½ stories, 25x40 feet, slate roof, hot water heating, electric lighting, oak floors. Contract awarded to F. H. Keiser, Pottstown, Pa.

Garage, Merion, Pa., \$3,200. Architects, Duhring, Okie & Zeigler, Bailey Building, Philadelphia. Owner, C. R. Wentz, Land Title Building, Philadelphia. Stone, 2 stories, shingle roof, hot water heating, electric lighting. Contract awarded to A. L. Fretz & Sons, 1222 Chancellor street, Philadelphia.

Residences (4), Mt. Penn, Reading, Pa., \$12,000. Architect, H. J. Maurer, 33 North Sixth street, Reading, Pa. Owner, architect. Frame and stucco, 2 stories, 36x36 feet and 26x36 feet, shingle and tile roofs, hot air and hot water heating, gas and electric lighting, metal lath. Contract awarded to Charles H. Schlegel, Mt. Penn, Reading, Pa.

Garage, Melrose Park, Pa. Architect, private plans. Owner, Archibald McKinlay, care of Acme Tea Co., Noble and oYrk streets. Stone and hollow tile, 2 stories, 25x30 feet, slate roof, hot water heating, electric lighting. Contract awarded to J. Renton White, Melrose Park, Pa.

Y. M. C. A., Waynesboro, Pa., \$51,000. Architects, Shattuck & Hussey, Chicago, Ill. Owners, Y. M. C. A., care of E. Stoner, Waynesboro, Pa. Brick, steel and concrete, 4 stories, 75x120 feet, tile and composition roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing. Contract awarded to A. R. Warner, Waynesboro, Pa.

Church and Parsonage, Waynesboro, Pa., \$35,000. Architect, J. W. Woltz, Waynesboro, Pa. Owner, United Brethren Congregation, Waynesboro, Pa. Brick, 1 and 2 stories, 74x132 feet, slate roof (heating and electric work reserved). Contract awarded to A. R. Warner, Waynesboro, Pa.

NEW JERSEY

Construction News

Bank Building, Swedesboro, N. J., \$25,000. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, Swedesboro National Bank, Swedesboro, N. J. Brick and marble trimmings, 2 stories, 49x71 feet, slag roof (heating, electric work and banking fixtures reserved). Architect taking bids, due December 29th. The following are figuring: Smith-Hardican Co., 1606 Cherry street; Henry L. Brown, 1714 Sansom street; J. E. & A. L. Pennock, Land Title Building, all of Philadelphia; J. S. Rogers Co., Stanwick, N. J.; Joseph B. Best, Woodbury, N. J.

Cottage, Ventnor, N. J. Architects, Koelle, Speth & Co., Twenty-sixth and Oxford streets, Philadelphia. Brick and frame, 2½ stories, 24x34 feet, slate or composition roof, steam heating, electric lighting. Architects taking sub-bids.

Residence, Haddonfield, N. J. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, Dr. Ernest A. Farrington, Haddonfield, N. J. Stone and frame, 2 stories, 30x50 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Offices and Apartments, Haddon Heights,

N. J., \$20,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, F. Fries Co., Haddon Heights, N. J. Tapestry brick and stone trimmings, 2 stories, 41x95 feet, slag roof, steam heating, electric lighting, tile work. Owners taking sub-bids.

Firehouse, Pitman, N. J., \$7,500. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owners, Pitman Fire Co., No. 1, Pitman, N. J. Brick and frame, 2 stories. Plans in progress. Architects will take bids in three weeks.

Residence, Haddonfield, N. J., \$6,500. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, John Trumpy, Haddonfield, N. J. Hollow tile and stucco, 2½ stories, 40x24 feet, shingle roof, hot water heating, gas and electric lighting. Plans about completed. Architects will take bids in one week.

Residences (2), Camden, N. J. Architect, private plans. Owner, William R. Hosier, 101 North Twenty-fifth street, Camden, N. J. Frame, 2 stories, 12x38 feet each, slag roof, hot air heating, gas lighting. Owner taking sub-bids.

School, Gloucester, N. J. Architect, Clyde

S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Gloucester, N. J. Brick, 2 stories, 32x85 feet, slate roof, steam heating, electric lighting. Plans in progress.

Store Building, Riverton, N. J., \$20,000. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owners, J. S. Collins & Sons, Riverton, N. J. Brick, 2 stories, slag roof, steam heating, electric light. Owners taking sub-bids.

Power House, Camden, N. J. Architects, Ballinger & Perrot, 1211 Arch street, Philadelphia. Owner, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 2 stories, 100x223 feet, slag roof, metal lath, waterproofing, iron grilles, metal frames and sash, safety treads. Architect taking bids, due December 28th. Armstrong & Latta, Land Title Building; Cramp & Co., Denekla Building; Irwin & Leighton, 126 North Twelfth street; George A. Fuller Co., Morris Building; Thompson-Starrett, 49 Wall street, New York City, are figuring.

Administration Building and Kitchen Wing, Trenton, N. J., \$50,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Insane Hospital, L. T. Atchley, Warden, Trenton, N. J. Brick, 3 stories, 34x250 feet, slag roof, steam heating, electric lighting, composition floors. Plans in progress.

Residence (alt. and add.), Trenton, N. J., \$4,000. Architect, J. O. Hunt, Interstate Telephone Building, Trenton. Owner, Harry Lyons, East State and North Clinton avenue, Trenton. Brick, 3 stories, 40x75 feet, steam heating, electric lighting, tile work. Plans about completed. Architect will take bids in a few days.

Flat House, Trenton, N. J., \$9,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner's name withheld. Brick, 3 stories, 29x60 feet, slag roof, steam heating, electric lighting, hardwood floors, tile work, metal lath. Plans in progress.

Bungalow, Trenton, N. J., \$3,500. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner's name withheld. Brick, 1 story, 32x42 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Residence, Washington Crossing, N. J., \$15,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Frank W. Harper, 840 Riverside avenue, Trenton, N. J. Brick, 2 stories, 34x54 feet, tile roof, heating undecided, electric lighting, hardwood floors, tile work. Architects will take bids in one week.

New Jersey

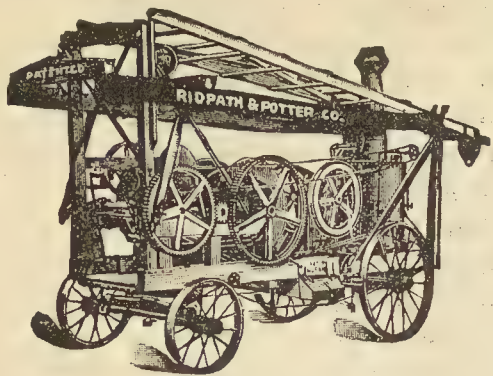
Contracts Awarded

Residences (2), Camden, N. J. Architect, private plans. Owners, East Side Developing Co., Camden, N. J. Frame, 2 stories, 14x44 feet each, shingle roof, hot water heating, gas lighting. Contract awarded to James H. Phillips, 3092 Fremont street, Camden, N. J.

Boiler House (add.), Port Reading, N. J. Architect, William Hunter, Twelfth and Market streets, Philadelphia. Owners, Philadelphia and Reading R. R. Co., Twelfth and Market streets, Philadelphia. Concrete and corrugated iron, 1 story, 19x34 feet, iron roof. Contract awarded to Henry E. Baton, Twelfth and Sansom streets, Philadelphia.

Kiln Shed, Trenton, N. J., \$3,000. Architect, private plans. Owner, Charles W. S. Munro, 172 Greenwood avenue, Trenton, N. J. Frame, 1 story, 60x170 feet, corrugated iron roof, concrete floors. Contract awarded to Newton A. K. Bugbee & Co., 206 East Hanover street, Trenton, N. J.

Factory (add.), Trenton, N. J., \$2,500.



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Architect, private plans. Owners, Trenton Potteries Co., Prospect avenue, Trenton, N. J. Brick, 1 story, 18x154 feet, slag roof,

steam heating, electric lighting. Contract awarded to Burton & Burton, American Mechanics' Building, Trenton, N. J.

Miscellaneous Construction News

Ammunition Factory, New Castle, Del. Architect, private plans. Owners, Bethlehem Steel Co., Charles Lehr, Chief Engineer, South Bethlehem, Pa. Brick and concrete, 1 and 2 stories, magazine building, 22x12 feet; charge plant, 36x80 feet; office building, 32x45 feet; power house, 96x80 feet, shops, 62x27 feet, 102x27 feet, 82x27 feet; 102x27 feet, rubberoid and slag roofs, waterproofing, steel sash, steam heating. Contract awarded to William Steele & Sons Co., Sixteenth and Arch streets, Philadelphia.

Lodge Building, East Liverpool, Ohio. Architects, Holmboe & Lafferty, Clarksburg, W.

Va. Owners, B. P. O. Elks, East Liverpool, Ohio. Brick, 4 stories, 45x111 feet, composition roof, electric lighting (heating reserved). Owners taking bids, due December 28th. H. L. Brown, 1714 Sansom street, Philadelphia, is figuring.

Hotel (alts.), New Castle, Del., \$1,500. Architect, E. L. Rice, Jr. Co., 815 Market street, Wilmington, Del. Owner, John B. Truitt, New Castle, Del. Brick, 2 stories, 36x70 feet, steam heating, electric lighting. Contract awarded to Charles J. Dougherty, 1809 Lincoln street, Wilmington, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Ed. M. Harris (O), 48 North Twenty-third street. Ed. Cunningham (C), 50 North Twenty-third street, Philadelphia. Cost, \$12,000. Manufacturing building, brick, 1 story, 61x188 feet, 29 North Twenty-second street, Philadelphia.

Joseph Ashby (O), Fox Chase, Pa. C. W. Overbeck (C), 7984 Second street pike. Cost, \$4,400. Residences (2), stone, 3 stories, 16x30 feet, F and Rahawn streets.

M. Gorrentino (O), 921 Catherine street. Cost, \$1,400. Store and dwelling, brick, 3 stories, 16x31 feet, 923 Catherine street.

Bourne & Collins (O), 5441 Haverford avenue. Cost, \$64,800. Twenty-four dwellings, stone, 2 stories, 16x20 feet. Cost, \$3,900. One dwelling, Sixty-second and Haddington avenue.

Mignon & Gagliardi (O), Holmesburg, Pa. William Mignon (C), Holmesburg, Pa. Cost, \$3,200. Two dwellings, brick, 2 stories, 16x35 feet, Craig and Arthur streets.

Jacob Hornung (O), Twenty-second and Clearfield streets. P. Haibach Cont. Co. (C), Twenty-sixth and Thompson streets. Cost, \$8,800. Manufacturing, brick, Twenty-second

and Clearfield streets.

H. Lenton (O), Ruth and Clearfield streets. Henry Moyer (C), 2029 East Wishart street. Cost, \$7,000. Five dwellings, brick, 2 stories, 14x30 feet, Jasper and Clearfield streets.

Bethel Church (O), Sixth and Lombard streets. Killen & Brightly (C), Real Estate Trust Building. Cost, \$4,000. Two dwellings, stone, 3 stories, 16x30 feet, 423 South Sixth street.

F. M. Faulkner (O), 2331 East Allegheny avenue. Cost, \$1,700. Dwelling, brick, 2 stories, 14x25 feet, Helen and Tioga streets.

Harry Scheiry (O), 2941 North Broad street. George A. Boyd (C), 211 East Willow Grove avenue. Cost, \$4,400. Dwelling, brick, 2 stories, 16x57 feet, 3910 North Broad street.

R. J. Keller (O), Sydenham and Courtland streets. C. H. Eckman (C), 2126 North Sixteenth street. Cost, \$5,000. Store and dwelling, brick, 2 stories, 19x70 feet, Sydenham and Courtland streets.

James R. Crellin (O), 3218 Turner street. Monaghan & Losse (C), 214 South Twelfth street. Cost, \$12,000. Garage, 3 stories, 45x71 feet, Wayne avenue and Washington lane.

Alterations and Additions

Peter Herwig (O), 2013 North Mascher street. P. Haibach Cont. Co. (C), Twenty-sixth and Thompson streets. Cost, \$1,200. Dairy, brick, 16x26 feet, 1 story, 2013 North Mascher street.

Billy Sunday Tabernacle Company (O),

610 Stock Exchange Building. J. H. Speice (C), 610 Stock Exchange Building. Restaurant, frame, 1 story, 100x144 feet, Nineteenth and Vine streets.

Ed. Fraim (O), Second and Queen streets. D. F. Wholey (C), 1109 Indiana avenue.

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Kingan Provision Company (O), Richmond, Va. J. R. Livezey (C), 1933 Market street. Cost, \$2,000. Storage, Eighth and Callowhill streets.

James Gallagher (O), Broad and Morris

streets. Cost, \$500. Storage, brick, 2 stories, 18x20 feet, 820 South Swanson street.

J. F. Grogan & Company (O), 2113 Sargent street. W. E. Stone & Sons (C), 2069 East Dauphin street. Cost, \$500. Factory, 2113 Sargent street.

M. D. Lesler (O), Twelfth and Sixty-fifth avenue. F. & L. Davis (C), Thirteenth and Nedro streets. Cost, \$650. Garage, stone, 1 story, 18x20 feet, Twelfth street and Sixty-fifth avenue.

Charles Lehr (O), 1422 Chestnut street. J. M. Holm (C), 5556 Arch street. Cost, \$1,400. Garage, fire damage, 5404 Westminster avenue.

Harry J. McCarriek (O), 1724 Ellsworth street. J. Maginnis (C), 514 Walnut street. Cost, \$1,500. Shop, brick, 14x25 feet, 1813 Kater street.

Emil Selig (O), Thirteenth and Filbert streets. John Baizley Iron Works (C), 514 South Delaware avenue. Cost, \$600. Fire escape, 902 Walnut street.

W. E. Cooper (O), Trenton and Allegheny avenues. Specialty Eng. Co. (C), Emerald and Cornwall streets. Cost, \$750. Stable, brick, 1 story, 31x45 feet, Trenton and Allegheny avenues.

Carl G. Barth (O), 6151 Columbia avenue. M. W. Young (C), Overbrook, Pa. Cost, \$1,400. Garage, stone, 1 story, 26x22 feet, 6152 Lebanon avenue.

Automobile Trade Association (O), Broad and Wallace streets. Joseph Bird Co. (C), 213 North Eleventh street. Cost, \$1,100. Coat room, screen and offices, Broad and Wallace streets.

John Kerrigan (O), 6676 Musgrave street. L. Kitselman (C), 125 Upsal street. Cost, \$375. Tool house, 19x29 feet, 1 story, Mt. Airy, Pa.

Fletcher-McNally & Boas (O), Germantown and Maplewood avenues. F. J. Boas (C), 201 North Broad street. Cost, \$500. Dwelling, frame, 2 stories, 10x10 feet, 24 Maplewood avenue. Cost, \$500. Dwelling.

N. Zassman (O), 325 Pine street. S. P. Coffin (C), 6807 Woodland avenue. Cost, \$1,700. Store and dwelling, new bulk, 934 South Fifth street.

Christ Church Hospital (O), 217 South Third street. A. H. Haigh (C), Raymond Building, Germantown. Cost, \$1,000. Hospital, foot bridge, Forty-ninth and Parkside avenue.

Hamilton Disston (O), 315 Rex avenue. George S. Roth & Sons (C), 230 East Gravers

lane. Cost, \$1,250. Store, 1 story, 19x21 feet, 315 Rex avenue.

H. Uran (O), 509 South Fifth street. B. Bornstein (C), 412 South Fifth street. Cost, \$1,400. Store and dwelling, 501 South Fifth street.

W. H. Flood (O), 101 Market street. Stacy Reeves & Sons (C), 2011 Market street. Cost, \$425. Saloon, New entrance and toilet rooms, 101 Market street.

Harry Green (O), 2134 Germantown avenue. H. P. Schneider (C), 3713 York road. Cost, \$800. Garage, brick, 1 story, 17x23 feet, slag roof, Norris and Gratz streets.

L. S. Harris (O), 1939 North Thirty-third street. J. A. Bader Co. (C), Wilmington, Del. Cost, \$5,000. Store and warehouse, new bulk, 1906 Market street.

Frank Graf (O), 3721 Spring Garden street. F. C. Roch & Co. (C), 6106 Delancey street. Cost, \$565. Residence, 3721 Spring Garden street.

H. Burstein & Co. (O), 709 Filbert street. P. Savar (C), 718 Snyder avenue. Cost, \$2,500. Store, 3 stories, brick, 18x24 feet, 42 North Seventh street.

Estate of Eliza Hill (O), 1617 North American street. F. G. English (C), 1608 North Carlisle street. Cost, \$4,200. Manufacturing building, Mascher and Lehigh avenue.

Charles Baker (O), 1441 North Tenth street. Charles Kerbeck (C), 1351 Ridge avenue. Cost, \$600. Store and dwelling, brick, 2 stories, 9x12 feet, 1441 North Tenth street.

American Rubber Rec. Co. (O), 400 East Rittenhouse street. W. E. Wark Co. (C), 1737 Filbert street. Cost, \$700. Tank tower, 400 East Rittenhouse street.

Swift & Co. (O), 218 North Delaware avenue. M. Schmid (C), 1308 North Sixth street. Cost, \$400. Meat house, repair, 218 North Delaware avenue.

J. Upman (O), 2906 Richmond street. J. W. Gordan (C), 2314 East Lehigh avenue. Cost, \$770. Stairs, alterations and additions, 2908 Richmond street.

M. J. Dunlap (O), 6113 Oxford street. A. Stewart (C), 5921 Lansdowne avenue. Cost, \$635. Garage, stone, 1 story, 21x21 feet, 6113 Oxford street.

S. M. Schober (O), 3711 Brown street. J. J. Quinn (C), 660 Preston street. Cost, \$400. Show room, 1 story, brick, 16x34 feet, 3341 Market street.

quibbling and kicking and transferring their business to some other tradesman who would no sooner feel himself well established than he in turn would start the same old game—padding the bills for enough to help keep soul and body together.

(I spoke last month of an architectural story that was due. Don't be impatient, gentle reader; the story is going to be in here, but it wouldn't do to begin this essay with such a thing. We must have a little patter by way of preparation.)

If this little grocery man, as I was saying, could buy those eggs for 5 cents a dozen and sell them at a small advance all would be well. But he doesn't. He can't. And besides there's a whole lot of people that have to get a part of that difference between the farmers' price and the consumers' price. The grocery man does not get it all by any means.

And eggs are not the only thing that the city people have to live on or live off. Everything we buy has to be loaded with its part of the contributions which the city people have to make for their own support.

All these attacks on the middleman, and this talk about doing away with him, make me laugh. Every little citizen who wakes up in the morning and dresses himself and sits down to his breakfast with his newspaper spread out before him is a middleman.

He gets to his newspaper and commences to read about the war against the middleman.

Meaning the war against himself.

I wonder if he or his boss has any unsuspecting customers in these & well, we'll call them—interesting times that are asked to stand for a few padded bills. Only the echo to answer, and maybe it is silent.

If there were only a few competitors in these troublous times—oh, about a tenth as many as there are. Or would that be few enough? Well, say a hundredth. Then all would be well. With the demand undiminished each grocery man might then sell enough eggs alone to pay the rent and pay for the eggs, cover the losses on bad accounts and buy clothes for himself and his wife and his children. All the rest of the truck—potatoes, flour, butter—he could give away as premiums and cut out the trading stamps.

And all the rest of you middlemen would be happy, too, if ninety per cent. of your competitors would cease to compete but still keep on consuming, which does not mean having consumption, my doughty reader, but eating, drinking, wearing things out and using them up.

All you men that live in the city, every man Jack of you, are middlemen. The only real producers are the farmers who bring the eggs of their own hens to the market and plow the ground and raise the other truck for city people to use up. There is another class of producers, the miners, but they don't live in the cities either.

You builders think you are producers; your mechanics perhaps think they are—they are working with their hands. But they are not, they are middlemen. If they are in the

THE PRODUCER AND THE MIDDLEMAN

An Editorial by Theodore Starrett

Modern civilized life, according to certain dissatisfied people, is made up of a few producers and a vast army of deadheads who live on the producers. Looking at it from another point of view, life is made up of an army of brainy people who act in various capacities—among others as efficiency engineers—to direct a few brainless laborers who do the actual work.

Look at these intelligent people struggling to get their share of the usufruct. To-day's paper, for example, says that the farmer gets 17 cents per dozen for eggs which are sold to the consumer for from 35 cents to 50 cents.

Now, I say that that difference is not profit nor is it plunder. It is a necessary contribution of the public to the cost of the public's own living.

The grocery man up on Broadway, for in-

stance, who has to struggle with a shifting clientele—a clientele which won't stick but trades all over town, down at the markets and department stores and over on Third avenue—this poor grocery man who has to pay a fancy rent and support a wife and children, and educate the children, has to sell a whole lot of eggs even at the highest price, and a lot of other truck to show him even a living profit.

Many a time I have sympathized with one or another of them who lost a good customer, meaning myself, by trying to help out on some of his bad accounts by padding his bill with items that never were delivered. I have sympathized with them all right, and in the kindness of my heart wished them joy of all the easy marks they had among their customers who would pay their padded bills without

cities they are simply building houses and factories in which they or other middlemen lie or carry on their business of being middlemen.

The whole fabric of civilization is supported on the little that is raised out of the ground. It has to be. There is no other way for it. You were taught this when you went to school, and you've been told the same thing a thousand—or is it a hundred thousand?—times since.

In the old days people did not seem to care so much about how much the middlemen made. Those were the days when more lived in the country and fewer lived in the cities. When the balance between city and country was disturbed—destroyed—by the rush to the city, the trouble began. And now a condition that in some ways is as near what General Sherman called it, as anything can be, is upon us.

At the present time people seem to be holding inquests upon one another. Few hold infuents upon themselves; but that is the way of the world.

Lots of things that used to be done are not done any more. A homely sentence, but one whose meaning is clear, I think.

Here is the story of the architect. He was not a prominent one, just a plain ordinary common or garden variety of architect. He told me that he regarded these upstarts who were selling different kinds of hardware and different kinds of gas fixtures and radiators and boilers, as just so many nuisances. He said, "I never specify so and so or equal; I specify so and so, and I won't listen to anybody else; and at the end of the year I get my little check for my commission." Next day this architect was looking for another job. He does not know the reason to this day. He doesn't even suspect it, and many a time no doubt he rails at the crank who fired him.

I might stop here and ruminate on life and hypocrisy and such things.

A great many men do certain things that they think are perfectly legitimate and honest for no other reason than that other people do them. It is the custom. Everybody does it, they say, if the thing is ever by any chance brought home to them. But it is next to impossible to do this—to make them see what they really are doing, especially when they need the money.

And that reminds me of a story of a lawyer. Permission was wanted from the owner of an unoccupied building to enter its basement to support the wall during the construction of a building alongside. The owner, a very pleasant chap, referred the party who wanted the permission to his lawyer, a gentleman by the name of Sheepskin, who, on being approached, was discovered to be very obdurate and full of threats and objections. Nothing doing.

The man who sought the permission then called on his lawyer and asked his advice: "You just leave that to me," said the counsellor, "I think I know what ails Mr. Sheepskin." Sure enough, he did. Fifty dollars was the amount Mr. Sheepskin had in mind

when he made the objections and threatened the applicant.

I am under the impression that Mr. Sheepskin's conscience never troubled him even a little bit. Later I discovered that he was a political reformer—of the deepest dye, too. Afterwards he held high office in the city where he dwelt—"Architecture and Building."

THE THEATRE.

From a fire prevention standpoint, the theatre presents a problem that has taxed the ingenuity of the best minds in the business. One does not associate with the theatre, disaster. In fact, its chief function being to furnish entertainment, makes the thought of disaster generally a remote one, especially to those who attend. It happens, however, that the statistics show that within a respectable period of time there have been no less than one thousand theatre fires. In all of these there has resulted quite a large loss of life. Some of these fires are landmarks, in that each one has marked increased efforts to lessen the risk from fire. On the European continent the famous fire, I believe in the early seventies, at the Ring Theatre in Vienna, where the loss of lives was so great as to attract world-wide attention, led to the minute study of the action of heat and flame in such types of structures, and marked improvements in the design were the result.

In the United States three fires stand out very prominently, namely: one at Richmond, Va., the latter part of the eighteenth century; one at Brooklyn, N. Y., and the famous one at Chicago, the Iroquois Theatre. The latter, in point of numbers, was probably the most disastrous theatre fire in the record of a thousand such fires.

The Chicago fire had a greater effect probably in stimulating the purpose of all who came in contact with the problem to demand and secure in the plan, erection and conduct of amusement places a degree of care and safety which, up to that time, may have been unknown. One person who lost some relatives in the Chicago fire contributed a fund to be used by J. R. Freeman, the noted engineer, for the purpose of making a special study of the fire hazard in theatres.

In many respects, the general plan of the theatre, as it may be called, has not been changed from the days of the Greek and Roman theatres, especially the outdoor theatres. The element of scenery which has been introduced into the modern theatre did not exist in those days, but the division into two parts, that is, one for the audience and one for the stage, is found in the very earliest types of such structures.

The modern theatre is divided structurally into three divisions. The entrance building or lobby, the auditorium and the stage. Nearly all the fires which have occurred have originated on the stage, and the large opening at the proscenium arch protected only by the flimsy canvas curtain, in most cases, enabled the fire to at once fill the auditorium.

The loss of the lives in most cases was due not to burning but stifling. The normal course of the fire, heat and smoke is to come out under the arch and curl upward towards the gallery. In doing this it obeys the simple law that the lighter air rises. This was true in Chicago. The great majority of the lives were lost in the balconies or upper floors. Those on the first floor had two advantages in escaping. There were no stairs to descend and the air was somewhat better at the lower level.

The most structurally, which is to be secured in such properties are these, namely: (a) Building—brick or stone. (b) Walls—standard. (c) Proscenium wall, coming out as it does between the stage and auditorium, should have, except for the curtain, as few openings as possible. These should be protected by approved fire doors. There should be at the curtain opening an approved steel curtain with an automatic water curtain behind this. (d) Roof—standard. (e) Cornice—not of wood. (f) Heating—by steam. (g) Lighting—approved electric. (h) Fire protection—minimum. Two standpipes, one at each side of the proscenium arch with standpipe hose and another standpipe suitably equipped in the lobby. (i) Further protection—barrels filled with water, also pails beside the barrels, fire extinguishers, axes and hooks in each gallery, on each side of the stage and in the work rooms. (j) Further—watch service should be maintained. (k) Automatic sprinklers over the stage portion. (l) Any heating of glue, etc., to be by steam. (m) Carpenter shop cut off. (n) Dressing rooms—in a separate building cut off. (o) If scenery be stored it should be in a separate brick building properly cut off. The same should be true of the property room. (p) Smoking not to be permitted, except as necessary in a play. (q) Almost needless to say, good housekeeping is demanded. This would include the making, outside of the theatre, of costumes, etc.

Strange as it may seem, it is not an easy matter to secure standard conditions for these properties, especially if we get away from the theatre centers, but great progress has been made since 1903, and it is not too much to hope that the future will be even better than the past.

It is now an accepted principle that over the entire stage portion there must be adequate provision so that if a fire starts an ample skylight will immediately give way and permit the flames to pass out of the building. At the same time, a fireproof curtain will drop at the proscenium arch and thus prevent the smoke and flame and heat from immediately filling the auditorium. If these precautions are taken and adequate facilities for exit are provided there is no reason why the audience may not be able to leave the theatre without undue haste and with absolute safety.

Let us hope that we have had the last theatre disaster.

Some big guns are smooth bores.—Ex.

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Editorial Comment

To its readers, its subscribers, its advertisers, the architectural profession and the building trades, its contemporaries in the field of trade journalism and its exchanges, "The Guide" begs to extend the season's greetings. To each and all the merriest kind of a Merry Christmas and the happiest sort of a Happy New Year. What if business conditions are a little below standard? What if money is a trifle tight and collections a bit more difficult than usual?

We have the satisfaction of knowing that these conditions are temporary and psychological rather than permanent and actual, and that already signs are not lacking in abundance to warrant the belief that they will speedily work out their own adjustment and business get back to a prosperous and stable basis.

View the outlook as we may, there can be no evading the fact that we have much for which to be thankful. With seven-tenths of the civilized world engaged in a war of unparalleled size and ferocity, we are in the fortunate position of being at peace with the world. However repugnant it may be to figure at this time upon the selfish gains that must come to American trade in the wake of the titanic struggle now waging in Europe, we cannot remain forever blind to the logic of events.

Industrial Europe will need years in which to recuperate from the strain of the present conflict—years during which American trade will face an opportunity unique and without precedent. So that viewed by and large as the editorial writers put it, the prospect is one for optimism rather than gloomy prophecy. The year as a whole had been fairly well up to average until within the past few months the kaleidoscopic turn of affairs in Europe intervened to muddle a situation made more or less perplexed by the persistent assaults on big business at the national capital. That things may be confidently relied upon to right themselves, and that such an issue is vastly more imminent than most of us now care to predict, seems to be the opinion of men versed in the economy of existing affairs.

A toast then to 1915. May she bring peace, plenty and prosperity—

* * *

Mr. F. Laurent Godinez, a lighting expert, has an article in "Architecture and Building" that deserves to be read by men who believe in the conservation of human eyesight. Mr. Godinez heads his article—which is one of a series he is to contribute to "Architecture and Building"—"In the Glare."

"Architecture, decoration, or everything, must be seen to be appreciated. Then why all this talk about 'glare' and the injurious effects of glaring bulbs on the eye? Do not

these learned M. D.'s, who are so disturbed by our glaring lights, know that heaven has sent us (by the grace of commercialism) sight-balm, in the form of these inverted bowls, or what-not, modestly hiding their own light, that ours may so shine?" writes Mr. Godinez. "Does not each manufacturer of these luminous ceiling ornaments modestly admit that he has solved the problem of eliminating glare, and that his product is the only one? Most assuredly. Well then; either the architect really possesses a remarkable sense of humor, or else,—but why not conduct a preliminary diagnosis for the benefit of our afflicted client,—the general public—before recommending 'patent medicine'? Perhaps the old-fashioned remedies will effect a painless cure,—not worse than the disease. To begin with, there are just two kinds of people in the world,—with brains and without, including architects and —, but no, the other half shall be nameless, or else their sins shall find them out.

"The Class A kind (note how Destiny and Architecture go hand in hand with 'capitals' and 'A's') usually have a batting average slightly over 400, and take a good-sized grain of salt (weighing about a ton), with everything that anyone tries to 'hand' them. The other class (they don't deserve a capital, because they're at the wrong end of the column) do the Jonah act regularly with every unpalatable piece of 'bunk' which can be swallowed, although Fletcher would groan inwardly over their lack of technique. Humans of the Class A variety are beginning to realize that artificial light, in the form of the glaring exposed bulbs which dazzle the eye on all sides, is connected in some way with their nervousness, headache and eye-pain. In other words, they are beginning to attribute some of these 'effects' to the proper, or more properly speaking, 'improper' cause.

"Here are the facts in a nutshell, divested of professional theory and piffle. Nature has done her best to make the organs of a human being fool-proof. That is, proof against anything but abusive practice of fools. The stomach will stand a great deal of abuse, but it can't get used to cyanide of potassium or carbolic acid. Neither can the human eye get used to glaring electric bulbs which exceed Nature's danger limit several hundred times. When the stomach is abused the eyes show it by their blood-shot appearance on the 'morning after.' Headache is another aftermath. In the same way stomach trouble and headache can be caused by eye-abuse. Even acute indigestion, insomnia, and that condition known as 'grouch' and 'the blues' will result from exposing the eyes to these glaring electric bulbs which are growing more glaring and more dangerous with each improvement which concentrates the dazzling light giving element.

"No, reader, this is not an introductory pre-

amble to be followed by an effusive eulogy on indirect-lighting or concealment of source.

"Indirect lighting, like any other application of artificial light, has its field of usefulness, but it is not unlimited. Wherever the architect takes hold of the lighting problem, about once in every 10,000 applications, we find lighting which if anything is visually safe. Glaring spots of light blot out pictorial expression, just as splashes of white paint would destroy the effect of any fine painting. The architect knows this, but he is so beset and hounded by lighting salesmen, and so swamped and flooded with lighting literature, and so obsessed with millions of other annoyances that the big 'little' detail of lighting seldom gets the personal attention it deserves. Said a Jersey City architect who lighted a high school so that it is a menace to the eyesight of every student, 'I suppose it is bad, but the authorities (politicians and Board of Education) want a lot of glare, or they don't think they're getting their money's worth.' This allusion refers, of course, to conditions which could, and can be improved by the architect himself, and such cases are by no means restricted to school buildings. The bigger the undertaking the more miserable the lighting as a rule, and it is apropos to add that the new station of the New York Central Railroad, with its crude exposure of glaring bulbs in the approaches is no exception, excepting as a tribute to the stupidity of the illuminating engineer, and his ignorance of even the fundamental principles of physiologic lighting.

"But how about the condition which cannot be regulated by the architect? Millions of people ride in the subway and suburban trains, twice daily. The 'uneconomic' electric bulbs of the carbon type, have been replaced by 'high efficiency' mazda lamps, 'giving three times the light' (according to advertisements in the 5 cent weeklies) but with two hundred times the glare! (not mentioned in advertisements). These lamps are so glaring and dangerous to the eye that their exposure in the form of bare bulbs should be prohibited by law. Every architect is interested in getting facts, free from the graceful coloring of those subsidized writers who abound so plentifully nowadays and whose writings are a part of the advertising section. The question is one of Eyesight vs. Glaring Lights, and the issue is the eyesight of the next generation."

* * *

There is no doubt in the mind of any sane observer that the building of "movie" theatres,—so far as Philadelphia is concerned,—has been overdone. Nor is there any doubt at all that most of the buildings dedicated to this form of amusement have been underdone. When it is considered what really beautiful and artistic effects are possible with the use of architectural terra cotta in this field of design, one is moved to marvel at many of the garish, flimsy and hopelessly ugly affairs thrown up as "palaces of photoplay entertainment." The bulk of these are in ornamental sheet iron, a medium that while

useful to a certain extent has somewhat sharply defined limitations. One of the chief objections to ornamental iron is that it deceives no one—not even the builder. Coat it as you may, plaster it with gold leaf, embellish it with lights, it remains under any and all circumstances frankly and even obtrusively—ornamental iron. This is not true of architectural terra cotta. Terra cotta has the "feel," the sense of solidity, the grace of outline of stone. It has an air of elegance, a wholesome genuineness about it that appeals. It is wholly free from that suggestion of the "shoddy" and the "gingerbread" that makes itself felt in the structure of ornamental iron. A diminution in the number of the "movies" with a corresponding betterment in the quality of the building seems to be at this time more or less inevitable. "The Guide" notes that the more recent attempts in this field have been chaste as to design and honest as to mediums. We note, too, that the shoddy structures which marked the initiatory stages of the "movey" craze are gradually being abandoned or handed over for remodeling for other lines. The moral is that spurious building doesn't pay, and that an attractive structure designed by a competent architect and made of approved materials is as necessary to success as first-run pictures, features or extensive advertising.

* * *

An elaborate series of tests extending over a period of two years will shortly be undertaken upon 60 or more school children of the Bronx, New York, by the New York State Commission on Ventilation, with a view of solving the problem of efficient ventilation for the city's schools.

As previously reported, preliminary experiments have been going on for the last nine months in a specially constructed experimental chamber at the City College. Five volunteer students from the college have been subjected daily to varying temperatures and states of humidity, as well as to different methods of ventilation, and the work that they were able to accomplish under these conditions has been carefully noted. With the knowledge gained in this way the commission is now ready to transfer its investigations to the school children.

The tests will be made in Public School 51, soon to be opened in the Bronx. The new building, one of the finest in the city, will contain two class rooms fitted with every conceivable ventilating appliance as well as an elaborate plant for furnishing whatever changes in temperature and air the investigators may desire. Each room will have double ceilings, walls, and floors, in order to provide inlets and outlets for air at any point, but aside from this special mechanical equipment, the rooms will differ in no way from the other class rooms in the building. There will be seats for about thirty children in each, and the youngsters will be kept at their regular class room work without disturbance. Probably they will not even be aware that they are being made the subjects of scientific tests,

although there will not be a minute of the day they will not be under observation.

Members of the commission will make periodic visits to the school, and regular physical examinations will be made to determine the effect of the tests upon the children's health. Psychological tests will also be made to determine the mental efficiency of the youngsters, and the teachers will also be expected to note what effects the tests have upon the class work.

The commission will keep one representative in constant charge of the school plant. This part of the work will be left to Butler P. Crittenden, assistant engineer in charge of the experiments at City College. The members of the commission, all of whom serve without pay, are Prof. C. E. A. Winslow, College of the City of New York, chairman; Prof. E. L. Thorndyke, psychologist of Teachers' College; Dr. Frederick S. Lee, physiologist of the College of Physicians and Surgeons; D. D. Kimball, engineer; Dr. James Alexander Miller, a physician, and Prof. E. B. Phelps, chemist in the Hygiene Laboratory of the Government Health Service, Washington, D. C.

In discussing the forthcoming tests, Prof. Winslow said:

"Our tests at Public School 51 will put into practice some of the lessons we have learned from the tests at City College. There are those who contend that it is a waste of time and money to install ventilating systems at all, and that the best way to get fresh air is to throw open the window. One of the largest private schools in the city has been built on this principle, upon the advice of a prominent physician.

"Then there are those who believe in putting cloth frames in the windows and letting the air filter in that way. Others would have the air let in at the top of the room and taken out at the bottom, and still others argue that it should be just the other way around—let in at the bottom and drawn off at the top. There are so many theories that

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the only way to settle the question is to put them all to the test.

"That is just what we intend to do, and by observing closely how the children get along in their studies and in their health we hope to arrive at the best method of supplying fresh air in the public schools."

DRIP-PROOF WIREGLASS.

A Pennsylvania Wireglass Company, Pennsylvania Building, Philadelphia, has evolved a new type of glass that solves a problem often of great importance in manufacturing plants, that of eliminating the drip from the underside of skylights. In many of the arts, in silk and cotton mills, paper factories, chocolate works, etc., the falling of a single drop causes great damage. The new glasses is call "Aqueduct" and the under-surface has eight webs or channels to the inch, the webs being of such form as to give the greatest degree of capillary attraction. The result, says "Safety Engineering," is that, even when pitched as low as ten degrees above the horizontal, all condensation is held and carried down to the gutter at the foot of each sheet. The strength added by the webs is so great that the makers guarantee the glass for one year against breakage from any cause whatever. This company is the first in the history of glass manufacturers to make such a guarantee.

Labor means morality. The man who must work hard for a living has no time to run after other men's wives nor to constitute himself a receptacle for highballs. Only the laborers are religious. Leisure has ever been fatal to worship. It is useless to preach salvation to idle people. Remember the camel and the needle's eye.—"Onlooker."

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**National Brick Manufacturers' Association will hold its annual convention at Detroit, February 14 to 20. William B. Wrexford, of the Detroit Brick Manufacturers' Association, in co-operation with President Eben Rodgers, of Alton, Ill., and Theodore A. Randall, of Indianapolis, constitute the Committee on Arrangements. The association will also bring to Detroit the National Paving Brick Manufacturers' Association, the National Clay Machinery Association, and the American Ceramic Society.

**Ford Manufacturing Company, Ellicott Square, Buffalo, N. Y., is distributing an illustrated folder relating to its Gal-va-nite roofings, flooring, felts, asphalt, coal tar products, etc. Some of the illustrations show the sure and easy method of laying Gal-va-nite roofing and with the folder is a sample of the roof covering in question.

**Truman I. Lacey, one of the leading architects of Central New York and senior member of the firm of T. I. Lacey & Son, Binghamton, died at his home in that city Wednesday, November 25. He was eighty years of age and had lived in Binghamton for forty-three years. Mr. Lacey was the architect of many buildings of note in Binghamton and vicinity, the chief of which are perhaps the two Kilmer Buildings, Security Mutual Building and the Arlington Hotel. Some of the leading churches and schools of Binghamton and nearby towns were designed by him. Mr. Lacey was formerly Park Commissioner and was prominent in religious circles. Arthur T. Lacey, who has been associated in business with him for a number of years, will continue the practice.

**The card calendar for November sent out by the Richards-Wileox Manufacturing Company, Aurora, Ill., is one of the most attractive of the series. The panel picture bears the title "Leadership," and the significance of this is found upon the back of the card in its reference to the R-W House Door Hangers which the company manufactures to meet many requirements.

**James J. Egan, prominent as an architect of Roman Catholic churches in Pittsburgh and other cities, died in Chicago of a complication of diseases, Wednesday, December 2. He was seventy-five years old.

**The New York Retail Hardware Association will hold its annual convention in Syracuse, N. Y., February 16-19, 1915. Headquarters will be at the Yates Hotel.

**The Rexlite Company is a \$50,000 company, chartered with offices in Manhattan, to manufacture roofing materials, skylights, vault lights and ventilator systems, etc. J. Layng Mills, 103 West Fifty-fifth street; Alan B.

Mills, 15 Ivy Court, Orange, N. J., and Aldus B. Squire, 586 Scotland road, Orange, N. J., are the directors. Parker, Davis & Wagner, 34 Nassau street, New York, attorneys.

**The Higgin Manufacturing Company's New York sales office has moved from 1133 Broadway to the Craftsman Building, 6 East Thirty-ninth street, where it has on exhibition all its metal weather strips. James A. Jesty is the New York salesman.

**Alvin A. Callender and Fred D. Parham have formed a partnership for the practice of architecture under the firm name of Callender & Parham. The firm has opened offices in the City Bank Building, New Orleans, La., and desire catalogues and samples from manufacturers interested in the building trades.

**William B. Gray, consulting engineer and contractor, 2 Rector street, New York City, was recently appointed by Governor Glynn as a delegate to represent New York State at the seventeenth annual convention of the American Mining Congress, to be held at Phoenix, Ariz.

**The Knickerbocker Roofing Company has moved to 555 First avenue, corner of Thirty-second street, New York City. The firm's specialty is repairing of roofs, putting new roofs over old tin or composition roofs, using Barrett's Specification materials.

**Harold Van Buskirk, 2500 Newkirk avenue, Brooklyn, a senior in the architectural school of the University of Pennsylvania, was recently awarded first mention in a competition held among the students for "A Plant for the Manufacture of Arms."

**The International Association of Master House Painters and Decorators of the United States and Canada will meet in annual convention in Washington, D. C., February 9 to 12, 1915. The headquarters will be at the Hotel Raleigh. A. H. McGhan, Corcoran Building, Washington, D. C., chairman of Convention Committee.

**The Rapp Construction Company, of 30 East Forty-second street, New York City, erectors of reinforced concrete arches for buildings, has recently been reorganized, David J. Havens, formerly vice-president and secretary, retiring. The present officers are F. B. Rapp, president; J. F. Rapp, vice-president, and W. J. Rapp, secretary and treasurer. Associated with the company as general superintendent will be George H. Kunneke, who held a similar position with the National Fireproofing Company.

**The National Builders' Supply Association.—The annual convention will be held in Chicago, Ill., February 8-9, 1915. Headquarters at Hotel Sherman.

**The Atlas-Portland Cement Company has

made a mortgage to the Bankers' Trust Company and George A. Mahan as trustees, to secure an issue of \$10,000,000 general and refunding mortgage sinking fund 25 years 6 per cent. bonds, dated October 14. Stockholders have already subscribed \$4,000,000 of bonds to be issued at once for paying off maturing short-term notes. Of balance \$4,100,000 will be reserved to pay off \$4,018,020 first mortgage 6 per cent. bonds, due March 1, 1925, and \$82,000 debenture bonds, due March 1, 1913, and also \$1,900,000 will be reserved for future acquisitions and working capital.

**F. W. Fornfinne, 80 Rockaway avenue, Brooklyn, plumbing contractor, desires catalogues on plumbing and steam fitting specialties, fixtures and equipment.

**E. T. Huddleston has opened an office for the practice of architecture in connection with his work as head of the Department of Drawing at New Hampshire College, Durham, N. H., and desires to secure manufacturers' catalogues and samples.

**As a supplement to the October issue of "Graphite," the Joseph Dixon Crucible Company, Jersey City, N. J., published the Atlantic City Steel-Fence Paint Tests, the report concerning which was presented at the annual meeting of the American Society for Testing Materials held in Atlantic City the past summer.

**The present output of the Standard Sanitary Manufacturing Company, as a whole, is about 95 per cent. mechanically molded bath tubs and from 75 to 80 per cent. of its other cast iron products.

**The Eighth Annual Convention of the Chicago Cement Show will be held at the Coliseum, February 10-17.

**Habirshaw Wire Company, Yonkers, N. Y., has removed its sales office to its general headquarters at the Yonkers works.

**E. R. North & Bro., Madison Building, Montclair, N. J., and 30 Church street, Manhattan, architects, desire information and catalogues on school equipment.

**"Roofrite Shingles" is the title of an attractive four-page holder which is being sent out by W. C. Hopson Company, Grand Rapids, Mich. These shingles are made of a soft annealed metal and the galvanized coating is very carefully applied. It is so prepared that it fuses with the basic metal, thus providing, it is claimed, a rust-proof surface of great durability. They are not affected by moisture and the fire protection which the shingles afford is an important factor. Sparks or brands falling upon a roof covered with this material cannot ignite it or damage its efficiency.

**Fiberlic building board for interior construction is one of the latest candidates for popular favor among those connected with the building industry. It is made from a wiry interlacing mass of chemically treated root fiber and is produced in thicknesses of $\frac{1}{8}$, $\frac{1}{4}$ and $\frac{1}{2}$ in. The manufacturers, MacAndrews & Forbes Company, Jefferson street, Camden, N. J., will send samples of the ma-

terial to carpenters and builders who may make request for them.

**The members of the Advisory Committee appointed to assist the City Plan Committee of the Board of Estimate in the consideration of plans, held their first meeting recently at the Municipal Building, New York City, and organized for work. The members of the Advisory Committee are: Edward M. Bassett, Edward W. Brown, Arnold W. Brunner, Irving T. Bush, John M. Demarest, Michael Furst, Herbert F. Gunnison, J. Monroe Hewlett, Robert W. Higbie, Richard M. Hurd, Robert D. Kohn, C. Grant La Farge, E. E. Loomis, Milo R. Maltbie, Cyrus C. Miller, John J. Murphy, Charles D. Norton, E. H. Outerbridge, William Barclay Parsons, Frederick B. Pratt, William Allaire Shortt, F. De Hass Simonson, Daniel L. Turner and F. B. Williams. President McAneney is chairman of the City Plan Committee, which is charged with the work of formulating a general scheme of improvement with which all local improvements may be coordinated. George B. Ford is the consulting engineer.

**The Thirteenth annual exhibition of the Architectural League of New York will be held in the building of the American Fine Arts Society, 215 West Fifty-seventh street, opening Sunday, February 7, and continuing until Saturday, February 27, inclusive. The last day for the return of entry slips is Monday, January 4. The annual dinner is scheduled for Friday evening, February 5, and the league reception for the following afternoon. The exhibition is illustrative of the architecture and allied fine arts. It will consist of drawings and models of proposed or executed work in structural, decorative and landscape architecture; sketches and finished models and monumental sculpture. Cass Gilbert is chairman of the committee of annual exhibition and jury of selection. The jury of architecture is composed of Richard M. Hunt, Edwin H. Blashfield, Cass Gilbert, Isidore Konti, Donn Barber, William M. Kendall, Charles A. Platt, Philip Sawyer and S. B. T. Trowbridge. There will be competitions for the Henry O. Avery prize and a special prize of \$300. The Avery prize is for ture and the special prize is for the best design by an architect sculptor mural in collaboration. The medal of honor of the New York Chapter, A. I. A., will be awarded as usual.

Mr. William B. Faville has been elected president and Mr. Sylvain Schnaittacher has been elected secretary and treasurer of the San Francisco Chapter of the American Institute of Architects. Mr. Henry A. Schulze and Mr. James W. Reid were elected trustees. The delegates to the next annual convention of the A. I. A. are Mr. Faville, Mr. Schnaittacher, Mr. Schulze and Mr. William Mooser.

Mr. Alpheus J. Pelletier has opened an office for the practice of architecture at 496 Maple street, Manchester, N. H. He is desirous of obtaining catalogues and manufacturers' samples.

MAKING AND LAYING COMPOSITION FLOORING.

So many inquiries in regard to the report on "Flooring of Sawdust and Magnesium Chloride" have come to U. S. Consul Robert P. Skinner at Hamburg, Germany, that he has furnished some further information, which is especially interesting to American readers. It was stated in the original report that extensive use was being made in Germany of a flooring composed of the above-mentioned ingredients and which was especially useful in large office buildings and public halls. One inquirer asked particularly for the method of coloring the material and of governing its expansion and contraction. Consul Skinner says:

"According to my information there should be neither expansion nor contraction of the material from any cause whatever, after a flooring of magnesium chloride is once laid. The very ingredients are such that there is no buckling or cracking due to heat or cold. In Hamburg the composition is mixed and spread where the building operations are being carried on, the prepared dry meal being delivered in bags from the factory and the lye water made on the spot. It is impossible to state the precise rule for the composition of the meal or for the lye solution, these being the manufacturers' secrets, and each manufacturer claiming particular merits for his own formula. These formulas are not patented, and there is no doubt that they are all substantially alike. Several manufacturers have expressed a willingness to sell their process, either for the whole of the United States or for restricted territory. One Hamburg firm sold its formula for a small place in Southern Germany for \$1,428.

The mixture of meal and lye water is made in a mortar box, and when a thickness of not more than two inches is proposed it is spread and smoothed with a hand trowel; when a thickness of four inches is desired, the material is tamped and then smoothed. The amount of lye water used in mixing the meal depends upon whether the flooring is to be simply spread or tamped; if spread the ordinary practice seems to be to use from 4 to 6 buckets of the lye water to one sack of meal, the sack apparently containing from 50 to 60 pounds.

These floorings were first utilized in large office buildings in Hamburg, and probably elsewhere, as a basic flooring for linoleum and also for the addition of artificial wood-marble flooring. These wood-marble floorings are substitutes for wood, and the panels are polished like hardwood floors; that is to say, smoothed with steel shavings and given a coating of wax. When linoleum is applied, it is glued to the magnesium-chloride foundation with a linoleum cement, which is said to be composed of copal resin and putty.

In Germany linoleum is never tacked to wood or artificial stone flooring, as is usual in the United States, but is invariably glued in place, an ordinary flour paste being used when it is applied to wooden floors. Linoleum

thus laid is washed afterwards with soap and water and when dry given a coating of wax, exactly like a hardwood floor. This treatment is the ordinary practice in the large office buildings in Germany, even in hallways where thousands of people pass in the course of a week.

The magnesium-chloride flooring was first considered a particularly excellent foundation for linoleum, and it is only in comparatively recent times that it has been found possible to color it and to lay it so attractively that no linoleum covering is necessary. It is laid tight against the side walls, making the entire floor waterproof.

THE MEDIAEVAL HOUSE BUILDER.

During the twelfth and first half of the thirteenth century the houses of the great mass of people were little better than hovels, the walls consisting for the most part of timber framings filled in with mud and straw. The houses were low, being only one story in height and covered with a thatched roof. Closely packed together as were these houses and without chimneys, splendid material was provided for a fire, says E. E. Brockwell in a paper read before the British Institute of Certified Carpenters. Consequently, we find that probably the first attempt at forming building regulations was due to a conflagration.

These advocated the building of party walls 3 feet thick and 16 feet high. Compliance was voluntary, owing possibly to the fact that these recommendations were drawn up at an Assize of the Citizens of London, who did not feel enthusiastic about a matter that would have put them to expense. One clause was to the effect that if a man wishes to build such a wall, and his neighbor would or could not assist in the building, the dissentient had to supply the whole of the land, but had the right to support his timbers upon the said wall. Very little voluntary action accrued, however, so that after another large fire in 1212 the citizens again assembled and passed stringent compulsory regulations for the safety and convenience of the inhabitants. Many clauses were framed dealing with party walls and recesses therein.

The draining of the roof received a good share of attention. Provision had to be made for the effective removal of rainwater in such a manner that a neighbor's property was not rendered liable to suffer injury. Tiled roofs were advocated, but were not compulsory. Rush and reed coverings in an exposed state were condemned, and all such coverings were to be plastered within eight days. The penalty for non-compliance was the demolition of the house.

A rather amusing clause, and one that throws a good deal of light upon the functions of the aldermen at that period, was that aldermen were to carry a cord with a hook attached, and were invested with the power to pull down by its aid any house attacked by, or liable to attack during a conflagration. This also helps one to form an estimate as to the

character of the houses, and one can only conclude that they must have been of a rather crude form of construction.

At this Assize the rate of pay for the ensuing year for carpenters, masons and tilers was also fixed. The amount was the same for each trade. It was 3d. per day with keep or 4½d. per day without keep. According to Professor Thorold Rogers, who is considered an authority on such matters, the present value of thirteenth-century prices can be obtained approximately correct by using a multiplier of from 13-14. The amounts mentioned would be equal, therefore to 3s. 9d. and 4s. 7½d. respectively.

Great advances had been made in the various building trades by this time. Specialization had become a force dividing up industry in all directions. Masons were divided into two classes at least, namely, cutters and sculptors of freestone and layers and setters. Bricklayers, or men called such, were not known; but as there was in use at this period a small kind of brick, imported probably from Flanders, and as records of buildings included bricks in their structure contain reference to tilers, there is no doubt that bricklaying was executed by these men.

Plasterers are mentioned; also mudstickers, who filled in the framework of houses. In the less skilful division are such distinctions as barrowmen, laborers and excavators.

The joiner is not mentioned, perhaps he had not put in his appearance. When he did, there arose several occasions when the members of each craft indulged in a resort to physical force to settle points of etiquette concerning their crafts.

It was about the year 1230 that joinery work came into vogue in England, and, of course, the King's establishments were the first to be improved. The royal baliffs and master carpenters in the King's service must have had a very trying time, judging by the records still existent. Scattered about the country were about thirty royal residences, each of which had to be brought up-to-date. Besides these, the King seems to have exercised in a thorough manner his royal privileges by ordering alterations and improvements wherever he was likely to stay or stayed during a journey.

A DAY SCHOOL FOR APPRENTICES.

A movement has been inaugurated by the Sheet Metal Contractors of the city of Philadelphia looking to a more thorough and practical industrial education for the apprentice. Beginning on September 21 the Philadelphia Trade School began day instruction for a class of about 40 sheet metal apprentices, all of whom have the privilege of attending school one full day in a week from 9 A. M. until 3 P. M., and the remainder of that day for study. The class is divided into five sections; that is, one for each school day of the week and the employer and the apprentice select the day the apprentice will attend the school. The course of study is that outlined by the Educational Committee of the National Association.

APPLYING STUCCO TO BRICK WORK.

In applying stucco to old brick walls, the most important point is that the old surface must be thoroughly cleaned; if coated with paint, this must be scraped or burned off, and if uncoated, the surface must be washed with a solution of muriatic acid mixed in the proportion of 1 part commercial muriatic acid to 5 parts of water. The wall should be scrubbed with this solution, then thoroughly cleansed with clean water.

The joints between the brick work should be picked back from the face of the bricks to a depth of ½ in. to ¾ in., so as to form a key for the plaster. Immediately before applying the plaster, the surface of the walls should be thoroughly soaked with water, for, on account of the porous nature of the brick, water would be absorbed from the plaster, thus injuring its strength, unless the brick were thoroughly saturated beforehand. After this the work does not differ materially from ordinary stucco construction.

Sometimes, instead of applying the cement plaster directly to the brick, metal lath is fastened to the brick and the stucco placed on it, says C. W. Boynton in an exchange. Metal furring strips are attached to plugs driven into the joints of the brick work, and the lath is fastened to these strips. This method of construction is always advisable for covering brick chimneys so as to prevent cracking due to extreme temperature changes.

In applying stucco to new brick work, the procedure is practically the same as described, except in the matter of cleaning off the surface, though the walls should be brushed to remove any mortar that may have splashed on the surface of the brick at the time of laying up the wall.

BUILDING OPERATIONS IN 1913.

According to figures which have just been issued by the United States Geological Survey, the total cost of building operations in 1913 in the 147 cities from which it obtained its data was \$859,657,250. In 108 of these cities the new wooden buildings erected cost \$174,197,886 and new brick buildings \$226,478,584. All other buildings cost \$15,894,022. In 48 of the largest cities of the country the cost was \$659,515,746, as compared with \$738,989,710 in 1912.

The largest amount of building construction projected was in New York City, where total building operations aggregated \$107,104,707, but this represents a decrease of \$56,414,655 as compared with the previous year. Most of the cities which showed increases in 1912 showed decreases in 1913, while a few of the cities which showed decreases in 1912 showed increases in 1913. The latter statement is true, however, only with regard to the smaller cities.

The largest increase in any city was in Chicago, where the amount of building in 1913 was estimated to cost \$6,492,527 more than in 1912.

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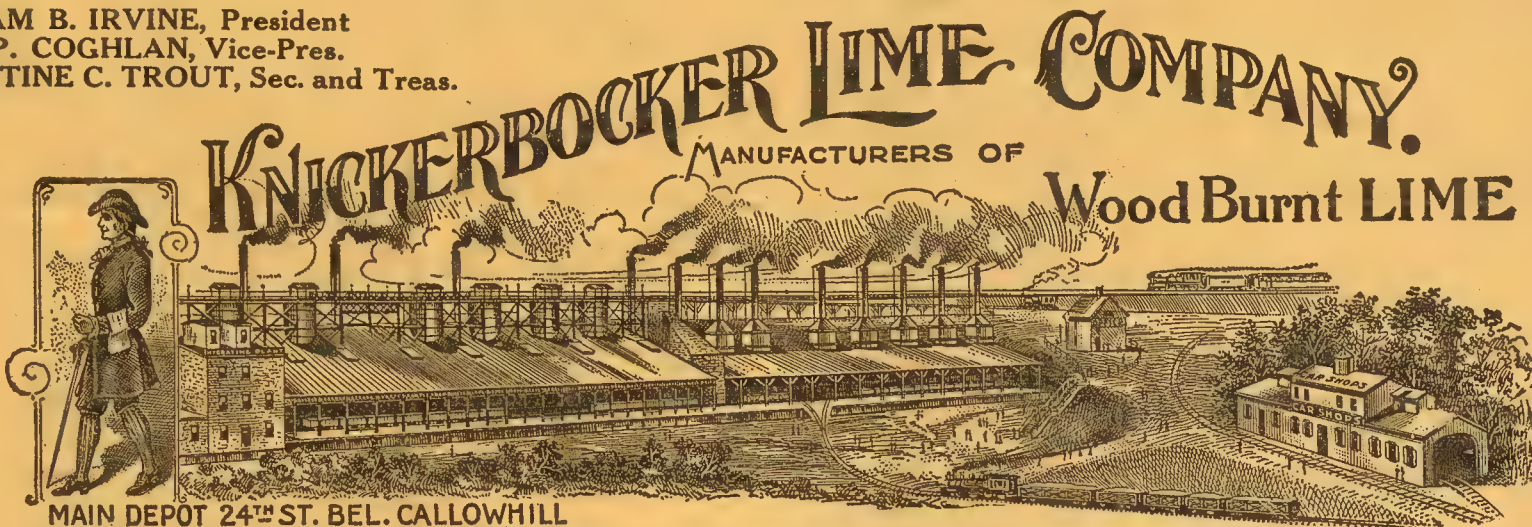
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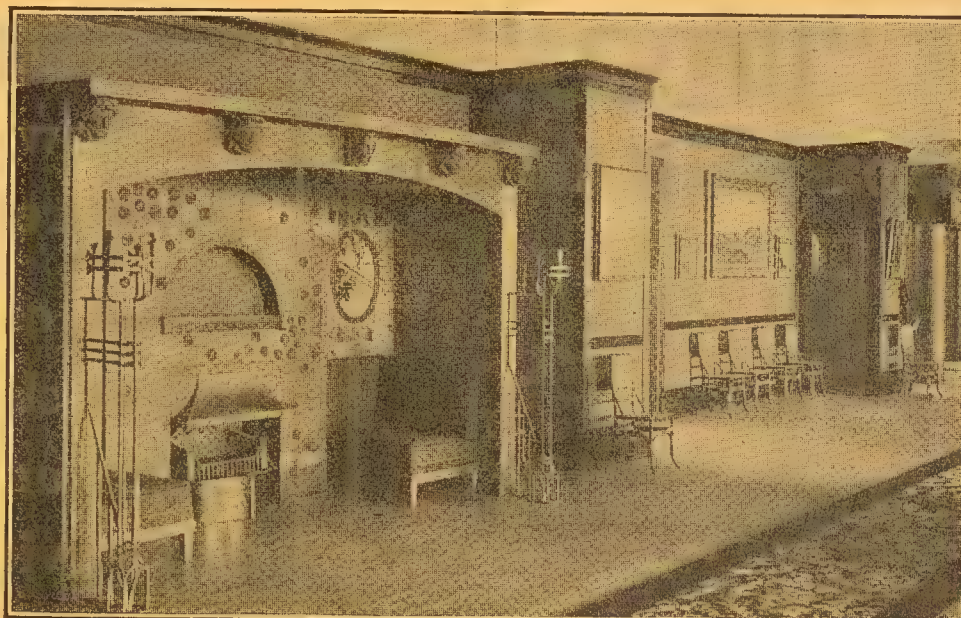
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Quick and Clean Partition Work.

The Original and Real Article. The only board, a repeater. Sample will
convince you.

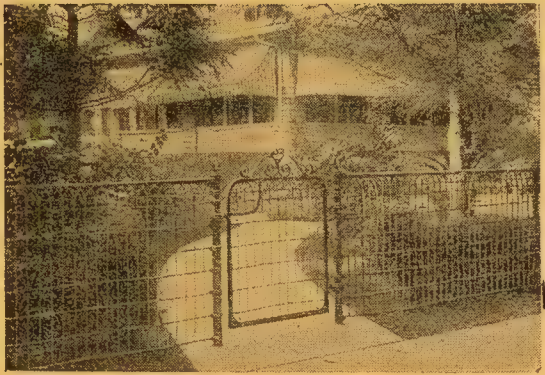
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HOWARD KETCHAM, Sole Agent

LUMBER YARDS

Third and Girard Avenue, Philadelphia

BLUE PRINTS—KEYSTONE BLUE PAPER CO., 910 & 912 Filbert St., Phila.—See Ad.



An important part of a fence is in the ground

It's the anchorage of the posts that determines whether the fence will keep its alignment and stand straight and true after years of service.

ANCHOR POST FENCES

are built on anchor posts which are driven into the ground and then held rigidly erect by two Anchor stakes driven diagonally through slots clamped to the sides of the posts.

Iron Railings and Entrance Gates, Lawn Fences, Tennis-Court, Poultry and Kennel-Yard Enclosures, Arbors, Trellises, and Flower-Bed Guards. Catalogues of any or all are yours upon request.

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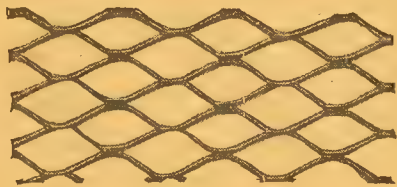
Structural Engineers

1614 CHERRY ST., PHILADELPHIA

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"BILCO"

Expanded Metal Lath



"Bilco" Diamond Mesh

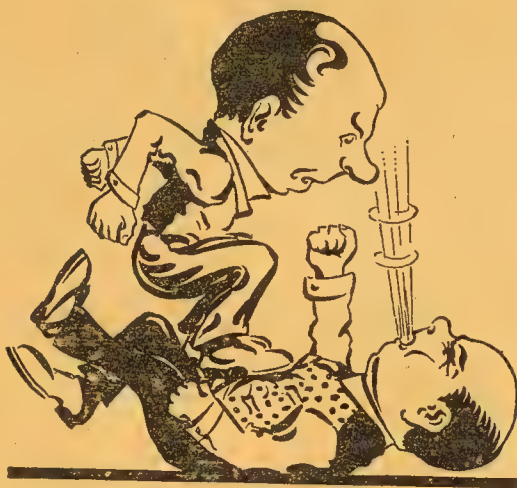
is the highest grade metal lath. Particularly suited for lathing domes, cornices, ceilings, etc.

Made in sheets 24x96 in., 1 7-9 sq. yds., in following gauges, 22, 24, 25, 26, 27.

Packed 15 sheets (26 2/3 sq. yds.) to the bundle.

BUILDERS STEEL PRODUCTS CO.,

"Bilco" Fireproofing Materials,
131-133 S. 24th Street, Philadelphia, Pa.



"Get the Jump on Your Competitors"

Join the "Live Wires"

Read the Daily Building News

Reliable, verified,
advance building news
concerning work in
Philadelphia, Eastern
Pennsylvania, South-
ern New Jersey and
Delaware.

Let our represen-
tatives show you the
merits and utility of
this service.

"DAILY BUILDING NEWS"

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O. W. KETCHAM

Manufacturer of

Ornamental Terra
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Face Brick

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Sunshine and Othello Ranges

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In Pointing and Renovating
Stone, Brick and Terra-
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Cementing and Rough Casting

1433 Brown St., Philadelphia, Pa.

The Originator of the New Method
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Let us figure on YOUR building
work

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MORTGAGES

We can place them for you

L. P. SIMPSON & SON

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Philadelphia

WIRE WORK

We are concentrating our Sales and General Offices at Audubon, N. J. On and after November 16th, our Philadelphia Office will be closed. All correspondence and orders should be sent to Audubon, N. J. where they will receive our usual prompt and careful attention. A daily automobile delivery service will be maintained for our Philadelphia customers.

Everything in Wire

Wire and Iron Work of Every Description—Brass, Copper, Steel and Galvanized Wire Cloth—Wire Window Guards—Wire Partitions and Stock Room Enclosures—Wrought Iron and Brass Grilles—Wrought Iron Window Guards—Brass Banking Fixtures—Radiator Guards—Coal and Sand Screens—Sieves and Riddles—Elevator Car Enclosures.

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General Offices and Factory, AUDUBON, N. J.

Christmas Gifts to Please Purse & Fancy

May be found among the Gas Appliances which we have on display at all our offices. Among them are:

Reading Lamps	Chafing Dishes
Cabinet Ranges	Tea Kettles
Water Heaters	Percolators
Heating Stoves	Gas Irons
New Art Gas Lighting Fixtures	

If you prefer, you can select your gifts from our catalog, which our representatives will be glad to show you upon request.

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IMPROVEMENT CO.**

WARNER "ALCA" LIME

Trade Mark
(PATENTED)

A perfect and most economical cementitious material for all-around use in mortars, stuccos and in plasters, inside and outside.

Prepared with and without hair.

A reasonably quick hardening, highly plastic, hydrated lime, ready for immediate use for all purposes.

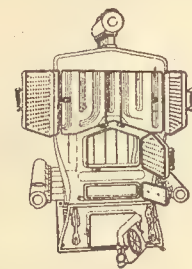
Contains the good features of Portland Cement, Gypsum Plaster and Cement.

Send for Trade Bulletin on Warner "Alca" Lime and for further information consult

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Philadelphia, Pa.

Wholesale Office, 810 Land Title Building.
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"Recommendation"

A boiler recommended by all who use them is not necessarily a reason why you should buy that boiler. But it is perhaps a reason why you should see that boiler before installing any other.

The H. B. SMITH CO.
1225 Arch Street
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GLENWOOD COMBINATION COAL and GAS RANGES

Crown Furnaces and Globe Ranges
Seamless Porcelain Lined Refrigerators
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COMPLETE LINE OF

Roofing and Structural Slate
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Plate 312 D

"CAPOCO"

Sanitary Vitreous Earthenware

Closet Combinations, Vitreous Closet Tanks, and Lavatories are guaranteed against crazing or dunting and to be absolutely sanitary and non-absorbent.

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Camden, N. J.

Phila. Show Rooms, 1511 Sansom St.

SCAMMELL EXPANDED METAL LATH

(Formerly Roebling)



The only Expanded Metal Lath in Rolls
Patented February 17th, 1914

The advantages of Scammell Expanded Metal Lath are greater strength, increased durability, smaller mesh, applied parallel with the furring, no laps between furring.

USE SCAMMELL Lath
for Best Results

PAYNE & SCAMMELL

Concrete Fireproofing, Metal
Furring and Lathing

Land Title Bldg., Phila., Pa.

BLUE, BROWN and BLACK LINE PRINTING
done at reasonable prices. Quick Service. Tracings
called for and promptly delivered.

When buying Drafting materials
and supplies look for this trade-mark,
it stands for highest quality, best
workmanship and prompt service.



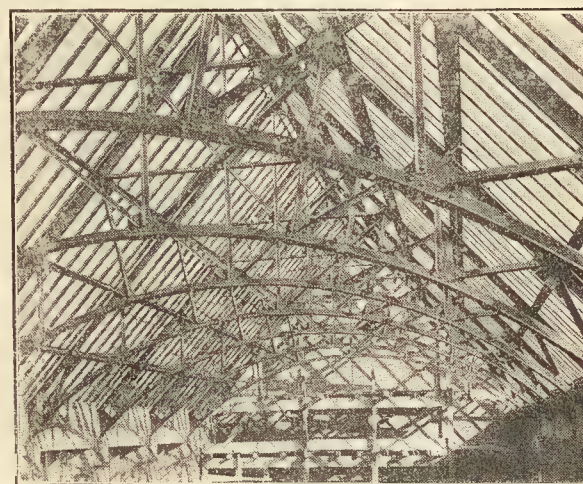
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Mining, Engineering, Surveying Instruments, Drafting Material

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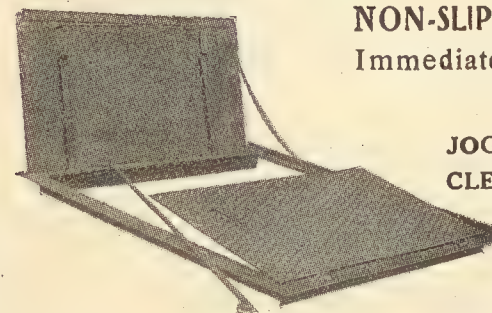
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1737 Filbert Street
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Contracting ENGINEERS

Structural Steel
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BUILDERS' SPECIALTIES



NON-SLIPPING FLUSH CELLAR DOORS

Immediate Shipment. Low Prices.

We also carry in stock:

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PHILADELPHIA

BAIRD-OSTERHOUT CONSTRUCTION CO.

Electrical Contracting in all its Branches

1112 Chestnut Street, Philadelphia

THE PHILADELPHIA REAL ESTATE RECORD AND *Builders' Guide*

OLDEST AND ONLY ARCHITECTURAL PUBLICATION IN PENNSYLVANIA

Vol. XXIX., No. 52.

PHILADELPHIA, WEDNESDAY, DECEMBER 30, 1914.

Less than One Year
15 Cents per Copy

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Sydenham and Master streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, I. Newton Smith, care of architect. Brick, 4 stories, 73x112 feet, slag and slate roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due December 31st. S. B. MacDowell & Son, 1927 Montgomery avenue, and A. B. Bowen, 17 North Boston avenue, Atlantic City, N. J., are figuring.

Children's Ward (alt. and add.), Broad and Wolf streets, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owner, Methodist E. Hospital, on premises. Stone and frame, 1 story, tile roof, metal lath, metal frames and sash, safety treads (steam heating and electric lighting reserved). Architects have received bids.

Residence (alt. and add.), 1717 Pine street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Seltzer & Wallace, 400 Chestnut street, Philadelphia. Brick and limestone, 4 stories, 16x60 feet, slag roof, hot water heating, electric lighting, hardwood floors, metal lath. Architects have received bids.

Alteration for Bank, Sixty-ninth and Market streets, Philadelphia. Architect, Lewis F. J. More, Lansdowne, Pa. Owners, Media Title and Trust Co., Media, Pa. Consists of interior alteration and addition, new partitions and fixtures. Revised plans in progress.

Store (alt. and add.), Chelton and Germantown avenues, Philadelphia. Architect, private plans. Owner, George W. B. Fletcher, West End Trust Building, Philadelphia. Brick and stone, 3 stories, 60x86 feet, hardwood floors, metal ceilings (heating and lighting reserved). Builder, J. N. Gill Co., Heed Building, Philadelphia, taking sub-bids.

Garage, 6143 Nassau street, Philadelphia, \$500. Architect, private plans. Owner, W. Percival Johnson, 4039 Lancaster avenue, Philadelphia. Brick, 1 story, 15x18 feet, slag roof, electric lighting. Owner taking sub-bids.

Hospital, Wissahickon avenue and Lincoln drive, Germantown. Architects, Savery, Scheetz & Savery, Stephen Girard Building,

Philadelphia. Owner, Providence Hospital, on premises. Brick and stone, 2 stories and basement. Plans about to be started.

Club House, 943 South Second street, Philadelphia. Architect, Charles F. Schaefer, 1524 Chestnut street, Philadelphia. Owner, Lithuanian Real Estate Co., 943 South Second street, Philadelphia. Brick and terra cotta, 3 stories, 58x81 feet, slag roof, heating, plumbing and lighting separate bids). Owners taking bids, due January 3rd. Alex. Chambley, 243 South Tenth street, is figuring.

Power Plant, Holmesburg, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, Department of Public Health, City Hall, City of Philadelphia. Stone, fireproof, 1 story, 70x116 feet, slate roof, electric lighting, metal lath, waterproofing and dampproofing, enamel brick, safety treads, metal frames and sash. Owners taking bids, due January 12th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Doyle & Co., 1509 Sansom street; P. J. Hurley, 1233 Cherry street; James H. Wells, Heed Building; Ed. F. Fonder, Land Title Building, all of Philadelphia.

Nurses Home, Observation Building, Scarlet Fever Ward and Corridor, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owner, Department of Public Health, City Hall, Philadelphia. Brick and stone, fireproof, 1 and 1 and 4 stories, 40x120 feet, 60x64 feet, 60x270 feet, slate and slag roof, steam heating, electric lighting, composition floors, metal lath, waterproofing and dampproofing, metal frames and sash, safety treads. Owners taking bids, due January 12th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Doyle & Co., 1509 Sansom street; P. J. Hurley, 1233 Cherry street; James H. Wells, Heed Building; Ed. F. Fonder, Land Title Building, all of Philadelphia.

School (add.), Seymour and Knox streets, Germantown. Architect, Horace J. Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Stone, fireproof, 3 stories, slate and slag roof (heating and lighting reserved), metal lath,

metal frames and sash. Owners taking bids, due January 8th. Plans may be obtained from architect upon a deposit of \$25.00.

School (add.), Ninth and Mifflin streets, Philadelphia, \$100,000. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and stone, fireproof, 2 and 3 stories, slate and slag roof, metal lath, metal frames and sash, safety treads, waterproofing. Owners taking bids, due January 8th. Plans may be obtained from architect upon a deposit of \$25.00.

School, James and Pratt streets, Tacony, Philadelphia, \$150,000. Architect, J. Horace Cook, Land Title Building, Philadelphia. Owner, Board of Education, City Hall, Philadelphia. Brick and stone, fireproof, 3 stories and basement, 150x200 feet, slate roof (heating and lighting reserved), composition floors, metal lath, waterproofing, safety treads, metal frames and sash, iron grilles. Plans may be obtained from architect upon deposit of \$50. Owners taking bids, due January 8th.

Police Station, Fire Station and Patrol Garage, Twenty-second and Hunting Park avenue, Philadelphia. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, City of Philadelphia, care of Department of Public Safety, City Hall. Brick and terra cotta, fireproof, 3 stories, 120x150 feet, tile and slag roof (steam heating and electric lighting reserved). Lowest bid submitted by Abel Bottoms Sons & Co., 41 South Fifteenth street, at \$127,800.

Store, Oak Lane, Philadelphia. Architect, private plans. Owners, Acme Tea Co., Second and Noble streets, Philadelphia. Brick, 1 story, 23x85 feet, slag roof, gas lighting. Builder, T. C. Trafford, 1613 Sansom street, Philadelphia, taking sub-bids.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—“Novelty News.”

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DIRECT FROM TRACINGS. Send for Sample Prints

BELL TELEPHONE, WALNUT 1086
KEYSTONE TELEPHONE, MAIN 497

Made on
TRACING CLOTH, TRACING PAPER, WHITE PAPER

CHARLES H. ROBBINS

“The Best” BLUE PRINTS

125 AND 127 SOUTH ELEVENTH STREET
PHILADELPHIA, PA.

Blue Print Chemical Famine

Notwithstanding the shortage in the supply of blue print chemicals, caused by the war in Europe, we have bought a sufficient quantity at the prevailing fabulous prices, to insure at least, running our blue print department until peace is declared.

Have you investigated our contract, by which we agree to insure you a continuous supply of blue prints, at a fixed price, until conditions again become normal.

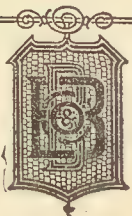
KEYSTONE BLUE PAPER CO.

Phones, Bell, Filbert 4705
Keystone, Race 1795

910 and 912 FILBERT STREET, PHILADELPHIA.

Belfi Bros. & Co.

Marble
Mosaic



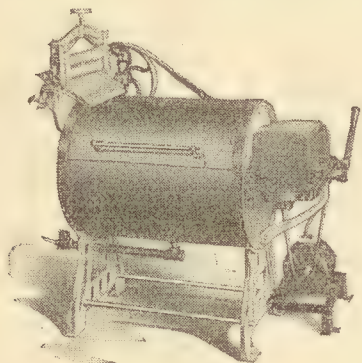
Terrazza and
Ceramic Mosaic

Tiles for Floors and Fireplaces
Interior Marble Work
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20 and 22 S. 19th Street
PHILADELPHIA

Branch Office, Allentown, Pa.
225 COMMONWEALTH BUILDING

Laundry Equipment



AMERICAN CLOTHES DRYER CO.
141 W. 19th Street New York City

LIBERTY STOVE CO.

Home Liberty Palace Liberty
Ranges and Heaters
114 N. 2nd St., Phila.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 238 South Twenty-first street, Philadelphia, \$3,600. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, David Jamison, 345 South Forty-fifth street, Philadelphia. Brick, 3 stories, 16x30 feet, slag roof, hot water heating, electric lighting, tile floors. Contract awarded to F. E. Wallace, 1210 Sansom street, Philadelphia.

Alt. and add for Restaurant, Juniper and Market streets, \$10,000. Architects, Hoeman & Co., Juniper and Market streets, Philadelphia. Owners, Horn & Hardart, 818 Chestnut street, Philadelphia. Consists of interior alteration and addition. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Public Comfort Station, Disston Park, Tacony, Philadelphia. Architect, Louis E. Marie, City Hall, Philadelphia. Owner, Department of City Work, City Hall, Philadelphia. Brick, 1 story, 12x35 feet, slate roof, electric light, waterproofing. Lowest bid submitted by F. A. Havens, 845 North Nineteenth street, \$2,695.

Concrete Fence, Thirty-sixth and Gray's Ferry road, Philadelphia, \$3,000. Architect, private plans. Owners, Barrett Manufacturing Co., Land Title Building, Philadelphia. Contract awarded to Brown-King Const. Co., Commercial Trust Building.

Saloon (alt.), 4441 Main street, Philadelphia, \$2,300. Architect, private plans. Owners, Leibert & Obert, on premises. Brick, 3 stories, new bulk windows. Contract awarded to Ed. L. Cuthbertson, 334 Roxborough avenue.

New Wall, Independence Square, Philadelphia. Architect, E. F. Stewardson, 320 Walnut street, Philadelphia. Owner, Department of Public Works, City Hall, Philadelphia. Brick and concrete, waterproofing. Lowest bid submitted by P. J. Hurley, 1233 Cherry street, Philadelphia, \$11,070.

Stable (add.), 30 East Rittenhouse street,

Germantown, \$2,000. Architect, private plans. Owners, Union Transfer Co., Broad Street Station, Philadelphia. Brick, 1 story, 28x70 feet, slag roof, electric lighting. Contract awarded to H. P. Schneider, 3711 York road, Philadelphia.

Store (alts.), 1414 South Penn Square, Philadelphia, \$2,500. Architects (associated), Carl P. Berger, Philadelphia, and L. E. Denslow, New York City. Owners, United Cigar Stores Co., 44 West Eighteenth street, New York City. Consists of new front and interior to first floor, tile work. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Nurses' Home (completion), Penn, near Chew street, Germantown. Architect, Louis Carter Baker, 34 South Seventeenth street, Philadelphia. Owner, Germantown Dispensary and Hospital, on premises. Brick, stone and terra cotta, fireproof, 3 stories, 61x136 feet, tile and slag roof, electric lighting, waterproofing, composition floors, safety treads, gypsum blocks, elevators, metal lath. Contract awarded to H. E. Batton, Twelfth and Sansom streets, Philadelphia.

Factory (add.), 1505 Wharton street, Philadelphia, \$12,000. Architect, C. E. Oelschlager, Harrison Building, Philadelphia. Owner, J. R. Bunting Bedding Co., on premises. Brick, 4 stories, 28x185 feet, slag roof, rolling steel shutters. Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

UNITAS TILING

A non metallic substitute for
tile and wood

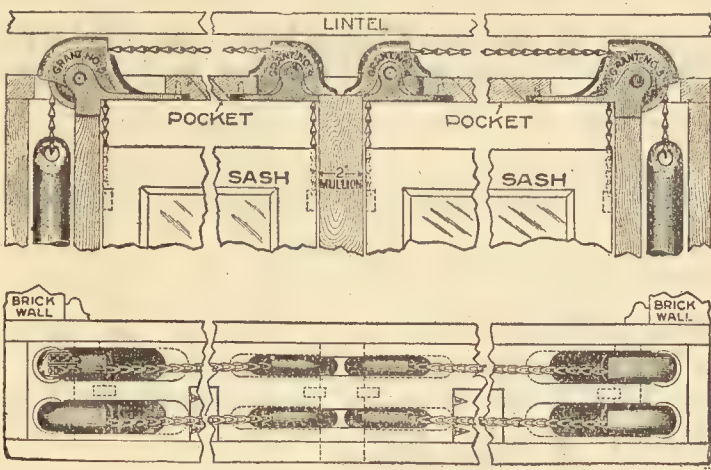
Manufactured by the Embossed Wall Covering Co.

Office and Show Room

880 N. 48th Street
Philadelphia, Pa.

UNITAS Composition Flooring

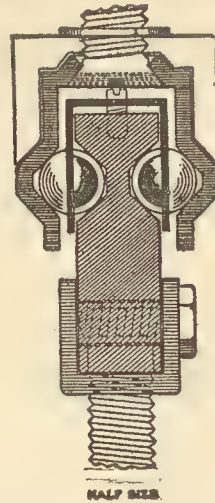
is Seamless, Fireproof, Durable, Elastic, Sanitary
Easy to the Foot, Inexpensive, Quickly Installed.
Can be used over old or new floors and stairs, wood,
concrete or any good foundation.



Grant Pulleys for Twin Windows

The Overhead Pulley obviates the use of lead weights, as it gives more pocket room. These pulleys can be used in single, mullion, triplet and quadruple windows.

Write
for
Catalogue
and
Discounts



THE DIAMOND TUBULAR BALL-BEARING DOOR HANGERS

This Hanger requires less space than other hangers.

Is easily installed and quickly adjusted. Dirt or dust cannot lodge in the track.

GRANT PULLEY & HARDWARE CO.

Philadelphia Representatives:

MURTA, APPLETON & CO., 12th and Sansom Streets

3 W. 29th STREET, NEW YORK CITY

PENNSYLVANIA Construction News

Residence, Bryn Mawr, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, Louis R. Page, North American Building, Philadelphia. Stone, 2½ stories, 32x58 feet, wing 22x36 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Builders, J. S. Cornell & Sons, Land Title Building, Philadelphia, are taking sub-bids.

Residence (alt. and add.), West Chester, Pa. Architect, Edmund B. Gilchrist, 1424 Walnut street, Philadelphia. Owner's name withheld. Brick, 2 stories, tin roof, electric lighting. Plans in progress. Bids in one week.

Bank (alt. and add.), Allentown, Pa. Architects, Sauer & Hahn, 1112 Chestnut street, Philadelphia. Owner, Second National Bank, Allentown, Pa. Consists of interior alteration and addition, steam heating, electric lighting. Plans in progress.

Residence, Elkins Park, Pa. Architect, private plans. Owner, Homer H. Evans, 1829 Chestnut street, Philadelphia. Stone and plaster, 2 stories, 26x35 feet, shingle roof, oak floors (heating and lighting reserved). Owner taking bids, due December 31st. Thomas C. Trafford, 1613 Sansom street, Philadelphia, is the only bidder.

Bank Building, Chambersburg, Pa. Architects, Furness, Evans & Co., Provident Building, Philadelphia. Owner, Valley National Bank, Chambersburg, Pa. Brick, stone trimmings, 2 stories, steam heating, electric lighting. Plans about to be started.

Hospital (alt. and add.), West Chester, Pa. Architects, Furness Evans & Co., Provident Building, Philadelphia. Owner, Chester County Hospital, West Chester, Pa. Brick, stone trimmings, 3 stories, slate roof, steam heating, electric lighting. Plans about to be started.

Car Shops, Pen Argyl, Pa. Engineer, private plans. Owners, Lehigh and New England R. R. Co., South Bethlehem, Pa. Brick, concrete, hollow tile, stucco, steel, 1 and 2 stories, 164x264 feet, 100x41 feet, 50x41 feet.

Consists of main locomotive repair shop, boiler house, storehouse, oilhouse, engine pits, offices, etc., cement tile, concrete and asbestos roofs, steel sash and doors, fan system of heating. Owners have received revised bids.

Residence, Drexel Hill, Pa., \$7,000. Architect, C. H. Woolmington, 36 North Fifty-first street, Philadelphia. Owner, Dr. Hiram A. MacIntosh, 1231 S. 50th street, Philadelphia. Stone and frame, 2½ stories, 40x41 feet, shingle roof, electric lighting, hardwood floors (heating reserved). Architect has received bids.

Laboratory, Easton, Pa. Architects, Chas. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Lafayette College, Easton, Pa. Stone and brick, 1 story, 50x65 feet, slate and copper roof, steam heating, electric lighting. Plans in progress.

School, Coatesville, Pa., \$110,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owner, Board of Education, Coatesville, Pa. Brick, fireproof, 2 stories, slate roof, steam heating, electric lighting. Plans in progress.

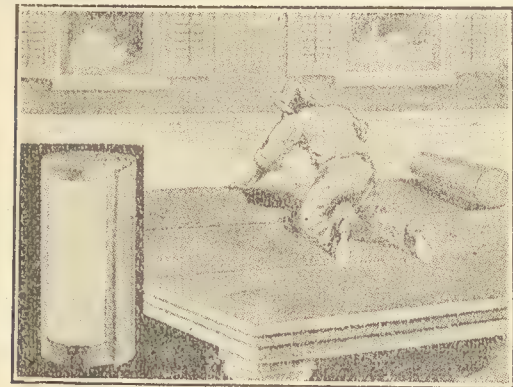
Garage, Penn Valley, Pa. Architect, William B. Thines, 326 West State street, Trenton, N. J. Owner, John E. Thropp, care of John E. Thropp's Sons, foot of Lewis street, Trenton, N. J. Frame, 2 stories, 30x32 feet, shingle roof, steam heating, electric lighting, gasoline storage system. Owner taking bids.

Theatre and Dance Hall, West Chester, Pa., \$25,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner's name withheld. Brick, hollow tile and steel, 2 stories, 50x80 feet, slag roof, steam heating, electric lighting, metal lath, iron stairs. Plans in progress. Architect will take bids in 3 weeks.

Library, Wallingford, Pa., \$4,600. Architect, Robert Holland, Moylan, Pa. Owner, Helen K. Furness Free Library, Wallingford, Pa. Stone, 1 story, 21x42 feet, shingle roof, steam heat, electric light. Contract awarded to George W. Tipping, Huntingdon Valley, Pa.

THE FAIRBANKS CO.
PHILADELPHIA

VALVES AND SCALES



Willow Brand Cotton Duck Roofing

is used on the Finest Buildings, also where severe strain and wear is essential for roof or deck, and in preference to tin, tar or copper, and is more durable than any roofing prepared or other kind. Samples mailed.

Widths from 26 to 120 inch, Cut any length or in 100 yd. Rolls

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Consulting Engineers
1302 Pennsylvania Bldg., Phila.
PHONE SPRUCE, 62-91

R. O. SCHEEL, PRESIDENT

FLOORS

PARQUETRY—PLAIN HARDWOOD—MAPLE—PINE AND EVERY KIND
LAYING—PLANING—FINISHING

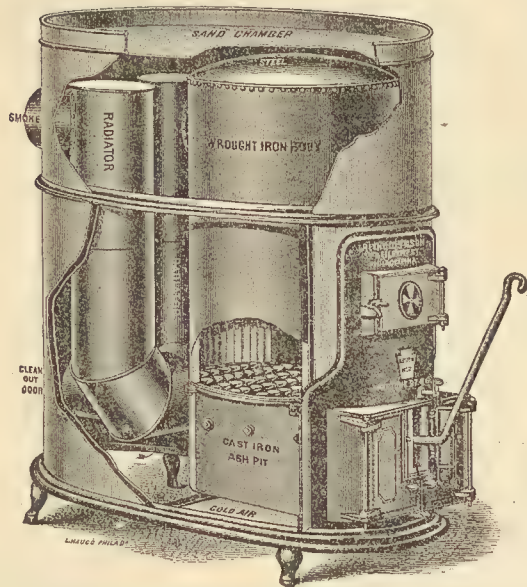
GENERAL FLOORING AND MFG. CO.

9 So. 18th STREET, PHILADELPHIA, PA.

SUCCESSOR TO J. C. MOORE CO. AND FLOOR LAYERS AND PLANERS, INC.

J. W. COLQUHOUN, SECRETARY

Perfect Hot Air Heating



Keystone Wrought Iron Furnaces

Perfectly Simple and Simply Perfect
Wrought Iron Construction
No Cement Joints

J. REYNOLDS & SON
Manufacturers of Heaters and Ranges
1613 Filbert St., Philadelphia



METROPOLITAN BUILDING, PHILADELPHIA

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Residence, Elkins Park, Pa. Architects, Street & Stackhouse, Drexel Building, Philadelphia. Owner, S. W. Lowenstein, Oak Lane, Philadelphia. Hollow tile and plaster, 2½ stories, 30x60 feet, slate roof, hot water heating, electric lighting, oak floors, canvas roof. Architects ready for revised bids in a few days.

Stock Pens, Herrs Island, Pittsburgh, Pa. Architect, private plans. Owners, Pennsylvania R. R. Co., Pittsburgh, Pa. Brick, steel and concrete, 1 and 2 stories, 190x512 feet, asbestos roof, metal frames and sash (lighting reserved). Owners taking bids, due December 30. In addition to those previously reported, Charles Gilpin, Harrison Building, is figuring.

Bank Building (alt. and add.), Pottstown, Pa. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owners, Security Company, Pottstown, Pa. Brick and stone, 2 stories, steam heating, electric lighting, tile floors, metal lath, consists of new fixtures and interior addition. Plans lompleted. Architects ready for bids.

Residence, Drexel Hill, Pa., \$7,000. Architect, C. H. Woolmington, 36 North Fifty-first street, Philadelphia. Owner, Dr. Hiram A. MacIntosh, 431 South Fiftieth street, Philadelphia. Stone and frame, 2½ stories, 40x51 feet, shingle roof, electric lighting, hardwood floors (heating reserved). Architect taking bids. Harry Davis, 5100 Westminster avenue, Philadelphia, and J. K. Ingram, Lansdowne, Pa., are figuring, in addition to those previously reported.

Post Office (alt and add.), Royersford, Pa. Architect, J. V. Poley, Royersford, Pa. Owner's name withheld. Brick, 2 stories. Consists of new front and interior alterations, steam heating, electric lighting. Architect ready for bids.

Bungalow, Mt. Penn, Pa., \$5,000. Architect, George L. Gerhard, 619 Penn street, Reading, Pa. Owner, William H. Dumbell, Reading, Pa. Stone, 1 story, 34x50 feet, slate roof, heating hndecided, electric lighting, tile work. Plans in progress.

NEW JERSEY Construction News

Service Building and Cottages (2), Skillman, N. J., \$75,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owner, State of New Jersey Village for Epileptics, Dr. Wavid F. Weeks, Skillman, N. J. Brick and concrete, 1½ and 2 stories, service building 44x115 feet and cottages 116x31 feet each, slag roof, steam heating, electric lighting, composition floors, iron stairs, steel sash, waterproofing and dampproofing. Plans in progress.

Hotel (alt and add.), Ocean City, N. J., \$5,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Mrs. Vincent Yarger, Ocean City, N. J. Frame, 3 stories, 22x27 feet, shingle roof, electric lighting. Contract awarded to A. Bourgeois, Ocean City, N. J.

Residences (2), 754-56 Sycamore street, Camden, N. J. Architect, private plans. Owner, James E. Weaver, Camden, N. J. Brick, 2 stories, 13x36 feet each, slag roof, hot air heating, gas lighting. Contract awarded

to G. Anderson, 755 Woodland avenue, Camden, N. J.

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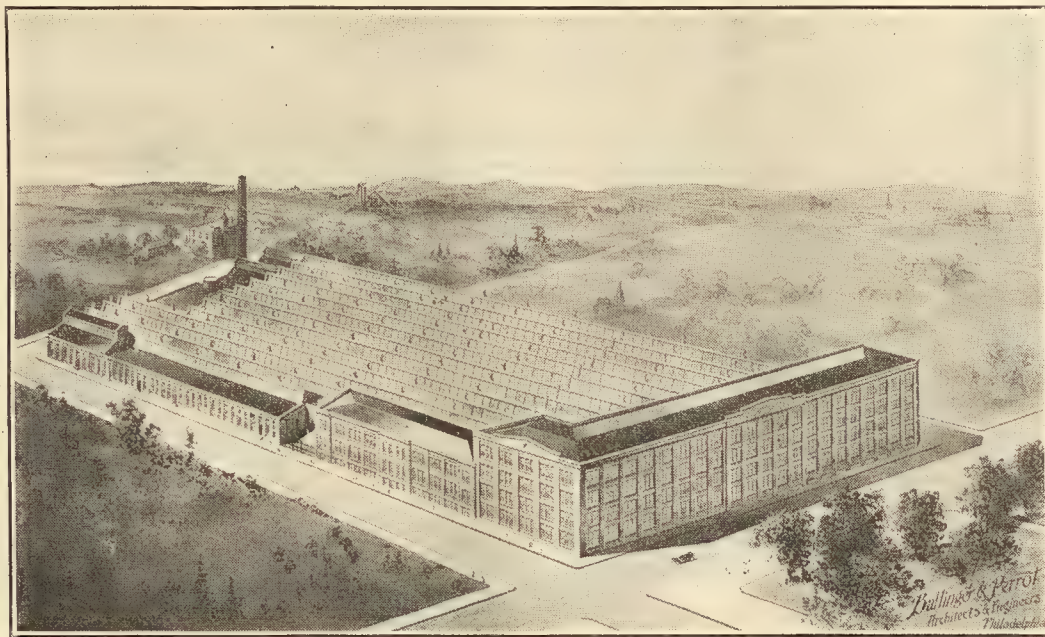
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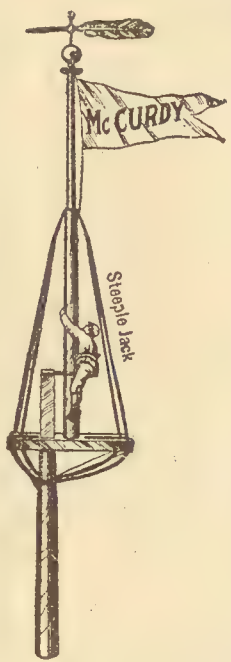
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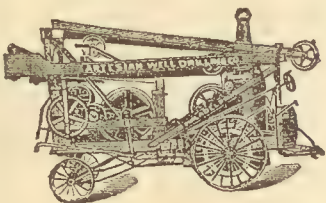
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Maryland Construction News

Factory (add.), Baltimore, Md. Architect, Joseph Evan Sperry, Baltimore, Md. Owners, Townsend Grace Co., Baltimore, Md. Brick and concrete, 9 stories, 33x76 feet, slag roof, metal lath, waterproofing and dampproofing, safety treads, metal frames and sash (heating and lighting reserved). Architect taking bids, due December 30th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Warehouse, Paca and Mulberry streets, Baltimore, Md. Architects, Haskell & Barnes, 301 North Charles street, Baltimore. Owner, R. J. Motz, 306 St. Paul street, Baltimore, Md. Brick, 4 stories, slag roof, steam heating, electric lighting, elevator. Plans in progress.

Residence, Hill Top Park, Md., \$4,500. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owners, Webb & White, Title Building, Baltimore, Md. Frame, 2½ stories, 28x52 feet, slate roof, steam heating, electric lighting. Owners are sub-letting all contracts.

Residence, Hill Top Park, Md., \$5,000. Architect, O. B. Wight, Munsey Building, Baltimore. Owners, Webb & White, Title Building, Baltimore, Md. Frame, 2½ stories, 32x35 feet, slate roof, steam heating, electric lighting. Owners are sub-letting all contracts.

Bungalow, Melvale Heights, Md. Architects, R. B. & P. P. Turner, Union Trust Building, Baltimore, Md. Owner, R. Slembirdge, care of architects. Hollow tile and plaster, 1½ stories, slate roof, hot water heating, electric lighting. Architects are sub-letting all contracts.

Bungalow, Melvale Heights, Md. Architects, R. B. & P. P. Turner, Union Trust Building, Baltimore, Md. Owner, D. C. Walter, 2514 Ashland avenue, Baltimore, Md. Hollow tile and plaster, 1½ stories, slate roof, hot water heating, electric lighting. Architects are sub-letting all contracts.

Pump House, Oakland. Md. Architect, Henry J. Tinley, Saratoga and St. Paul streets, Baltimore, Md. Owner, Dr. Ravenscroft, Oakland, Md. Frame, 1 story, concrete foundations. Plans in progress.

Bank, Hampden, Baltimore, Md. Architects, Ellicott & Emmart, Union Trust Building, Baltimore. Owner, Provident Savings Bank, Howard and Saratoga streets, Baltimore, Md. Brick, 2 stories, slag roof, steam heating, electric lighting, banking fixtures. Architects taking bids. The following are figuring: B. F. Bennett Building Co., 123 South Howard street; Gladfelter & Chambers, 2072 Woodberry avenue; W. E. Harn Co., 213 North Calvert street; Cowan Building Co., 106 West Madison street; George R. Morris, Gunther Building, all of Baltimore, Md.

Store Building, 315 North Charles street, Baltimore, \$50,000. Architects, Baldwin &

Pennington, 415 North Charles street, Baltimore. Owner, Morton C. Stout, 16 North Baltimore street, Baltimore, Md. Brick, 3 stories, slag roof, steam heating, electric lighting. Architects taking bids, due January 2nd. The following are figuring: John Hiltz & Son, 3 Clay street; Morrow Bros., Fidelity Building; Henry Smith & Sons Co., German and Light streets; G. W. Tovell, Eutaw and Dolphin streets; H. H. Maclellan, 15 East Fayette street; Henry S. Rippel, 7 Clay street; J. Henry Miller, Inc., Franklin and Eutaw streets, all of Baltimore, Md.

Warehouse (add.), 209 West Fayette street, Baltimore, Md. Architect, Joseph Evans Sperry, Calvert Building, Baltimore, Md. Owners, Townsend Grace & Co., on premises. Brick and concrete, 9 stories, 50x150 feet, slag roof, steam heating, electric lighting. Architect has received bids.

Church, Park Heights avenue, Baltimore, \$56,500. Architect, W. J. Palmer, Washington, D. C. Owner, Park Heights M. E. Church. Stone and brick, 1 story, slate roof, steam heating, electric lighting. Cowan Building Co., 106 West Madison avenue, Baltimore, Md., submitted the lowest bid.

Store and Apartments (alt. and add.), Twenty-ninth and Calvert streets, Baltimore. Architect, John R. Forsythe, 305 St. Paul street, Baltimore. Owner, F. E. Yewell, Jr., 2845 North Calvert street, Baltimore. Brick, 6 stories, slag roof, steam heating, electric lighting. Architect taking bids. The following are figuring: M. C. Davis, 633 North Calvert street; John S. Moke, 1825 West Baltimore street; Consolidated Engineering Co., Calvert Building; R. B. Mason, 308 West Madison street, all of Baltimore.

Paper Mill, Canton, Baltimore, Md., \$15,000. Architect, private plans. Owners, Canton Company, Toone and Second streets, Baltimore, Md. Concrete, 1 story, slag roof, steam heating, electric lighting, waterproofing and dampproofing. Owners taking bids. The following are figuring: C. L. Stockhausen, Gay and Water streets; Consolidated Engineering Co., Calvert Building; West Construction Co., Knickerbocker Building; Sanford & Brooks, Commerce and Water streets, and Richardson & Williams, all of Baltimore.

Residences (27), Oakland avenue, Baltimore, \$45,000. Architect, private plans. Owner, Charles M. Wartman, Webers Park, Harford road, Baltimore, Md. Brick, 2 stories, slag roofs, steam heating, gas and electric lighting. Plans in progress. Owner will take sub-bids.

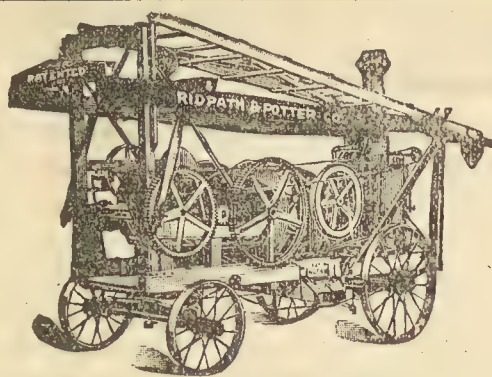
Engine House, High street, Baltimore, Md. Architect, John Freund, Jr., Hoffman Building, Baltimore. Owners, City Baking Company, Equitable Building, Baltimore. Brick, 2 stories, 14x49 feet, slag roof, electric lighting, concrete floors. Plans in progress.

Garage, Kirby lane and Edmondson avenue, Baltimore, \$10,000. Architect, Herbert Aiken, Caroline and Canton avenues, Baltimore. Owner, William Heise, Jr., 600 South Caroline avenue, Baltimore. Brick, 1 story, 33x46 feet, slag roof, electric lighting. Concrete floors. Plans in progress.

Maryland Contracts Awarded

Y. W. C. A. (alts.), 1224-26 Light street, Baltimore. Architect, Bayard Turnbull, 328 North Charles street, Baltimore. Owners, Young Women's Christian Association, on premises. Brick, 3 stories, slag roof, steam heating, electric lighting. Contract awarded to R. B. Mason, 308 West Madison street, Baltimore, Md.

Picture Theatre (alts.), East Baltimore



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street, near Holliday street, Baltimore. Architect, A. L. Forrest, Law Building, Baltimore. Owner, The Amusea, on premises. Terra cotta front, steam heating, electric lighting. Contract awarded to Henry L. Maas, 1119 Ensor avenue, Baltimore, Md.

Residence (alt. and add.), 2040 Eutaw

place, Baltimore. Architect, O. G. Simonson, Maryland Casualty Building, Baltimore. Owner, Dr. J. Leidy, on premises. Frame, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to Charles L. Stockhausen, Gay and Water streets, Baltimore, Md.

Miscellaneous Construction News

Excavation and Foundation for Free Library, Detroit, Mich. Architect, Cass Gilbert, 11 East Twenty-fourth street, New York City. Owner, Detroit Public Library, Detroit, Mich. Concrete and stone, 180x225 feet, waterproofing and dampproofing. Architect taking bids, due December 30th, on foundation only. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Loft Building, Cincinnati, Ohio. Architects, Godley & Godley, 903 Neave Building, Cincinnati, Ohio. Owner, Val. Duttonhofer, Jr., Cincinnati, Ohio. Brick, steel and concrete, 10 stories, 90x140 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing. Architects taking bids, due January 4th. Irwin & Leighton, 126 North 12th street, Philadelphia, are figuring.

Garage and Offices (alts.), Wilmington, Del., \$5,000. Architect, Roscoe C. Tindall, Equitable Building, Wilmington, Del. Owner's name withheld. Brick, 3 stories, 50x150 feet, slag

roof, concrete floors, electric lighting, elevator, iron stairs, gasoline storage system. Architect ready for bids.

Bank Building, Detroit, Mich. Architect, Albert Kahn, Detroit, Mich. Owners, Detroit Trust Co., Detroit, Mich. Stone and brick, fireproof, 3 stories, 40x138 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, iron grilles, metal frames and sash, safety treads. Architect taking bids, due January 2nd, 1915. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

School, Cleveland, Ohio. Architect, private plans. Owner, Board of Education, Cleveland, Ohio. Brick and concrete, 4 stories and basement, 194x107 feet, slag roof, steam heating, electric lighting, composition floors, waterproofing and dampproofing, enamel brick, metal lath, safety treads. Owners taking bids, due January 4th. James H. Wells, Heed Building, is figuring.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

John McClatchy (O), Land Title Buildign. J. T. Sanders (C), Land Title Building. Cost, \$6,000. One dwelling, stone, 3 stories, 26x37 feet, Fifty-second and Overbrook avenue.

Solomon Brothers (O), 824 Snyder avenue. Cost, \$106,000. Fifty-two dwellings, 15x24 feet, Front and Jackson streets.

Alterations and Additions

Girard Estate (O), Lafayette Building. Brownworth & Co. (C), 1611 Sansom street. Cost, \$900. Fire escapes, 1100 Girard street.

Girard Estate (O), Lafayette Building. Smyser-Royer Co. (C), 1225 Race street. Cost, \$1,800. Fire escapes, 514 Brown street.

George Young (O), 701 Sansom street. F. L. Hoover & Sons (C), 1023 Cherry street. Cost, \$400. Stable, repairs, 1223 Federal street.

George Callan (O), 1714 North Fifteenth street. J. Schuster (C), 3552 North Fifteenth street. Cost, \$1,000. Dwelling, 1727 North Fifteenth street.

Yarrow & Van Pelt (O), Morris Building. Keystone Fireproofing Co. (C), Perry Building. Cost, \$8,989. Apartment house, 1330 Pine street.

Frank D. Evans (O), Forty-third and Brown streets. West End Heating and Eng. Co. (C), 4641 Lancaster avenue. Cost, \$800. Garage, Ebert Bros. (O), Sixth and Morris streets. Stewart Bros. (C), 2526 North Orkney street. Cost, \$750. Factory, alteration, Sixth and Morris streets.

Chestnut Hill Hospital (O), Germantown and Chestnut Hill avenues. W. J. Gruhler (C), 219 East High street. Cost, \$4,000.

WOOD WORK OF QUALITY



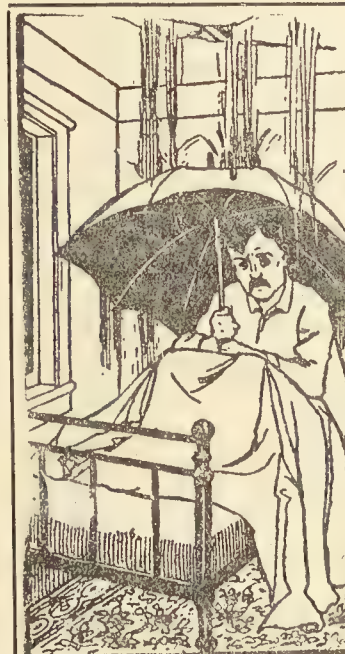
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C. C. Carman (O), Ventnor, N. J. William Carman (C), 1220 West Allegheny avenue. Cost, \$1,000. Garage, Twelfth and Sedgley avenue.

A. Lischinsky (O), Thirty-first and Montgomery avenue. J. Copeland (C), 1809 North Franklin street. Cost, \$1,100. Store and dwelling, 1845 North Thirty-first street.

United Cigar Store Co. (O), New Cork City. Smith-Hardican Co. (C), 1606 Cherry street. Cost, \$2,500. Store and offices, 1414 South Penn Square.

Parry De May (O), 1237 Point Breeze avenue. H. P. Dillon (C), 1223 South Twentieth street. Cost, \$475. Store and dwelling, 1233 Point Breeze avenue.

American Agricultural Chemical Co. (O), Drexel Building. Cost, \$1,000. Boilers, Delaware avenue and Bigler street.

Union Transfer Co. (O), Real Estate Trust Building. H. P. Schneider (C), 3711 York road. Cost, \$1,500. Stable, Rittenhouse street, Germantown.

Barrett Manufacturing Co. (O), Thirty-fifth and Gray's Ferry road. Brown-King

Const. Co. (C), Commercial Trust Building. Cost, \$3,000. Fence, concrete, Thirty-fifth and Gray's Ferry road.

Philadelphia Electric Co. (O), Tenth and Chestnut streets. Cost, \$8,000. Iron storehouse, 1 story, 15x20 feet, Delaware avenue and Robbins street.

Liebert & Obert (O), Manayunk. E. L. Cuthbertson (C), 334 Roxborough avenue. Cost, \$2,300. Saloon, 4441 Main street.

E. Schwartz (O), 1806 South Seventh street. Alex. P. Lucker (C), 5146 Parkside avenue. Cost, \$1,000. Dwelling and store, 2 stories, 10x24 feet, Tenth and Tree streets.

Clevit Reformed Church (O), Fifth and Rockland streets. H. P. Schneider (C), 3711 York road. Cost, \$3,000. Moving church, Tenth and Rockland streets.

W. Bansall (O), 6119 Oxford street. J. T. McCorkell (C), 2104 North Fifth street. Cost, \$650. Garage, brick, 1 story, 18x20 feet, 6119 Oxford street.

wrote, "the most extravagant fancy could not descend to such a degree of triviality and repulsive hideousness."

Then people began to get a new viewpoint and then—Courbet died, and when a painter dies—well, that's different again. For some mysterious reason, unable to do any more work, he may then be taken seriously, and that which we declined to look at while he was alive, now interests us very much indeed. Beauties hitherto unsuspected now begin to reveal themselves; the touch of genius is immediately obvious. Since he no longer requires bread to eat, we may start in to admire that which he has done; we may even go so far as to think of buying his pictures. When Whistler sent his now famous portrait of his mother to the Royal Academy of 1872, in London, the jury promptly refused it. You will remember that this canvas has been acquired now by the Luxembourg galleries, in Paris, where it is considered one of the masterpieces of modern portraiture. One of the council of the Royal Academy, Sir William Boxall, to his credit be it said, threatened to resign if the work was not hung, and as the council did not want to lose him, the picture was grudgingly accepted and placed on the top line, where few people could see it! But the English were not the only people to lack a proper appreciation for it. It came to America and was sent to the Pennsylvania Academy of Fine Arts, where it was subsequently offered to that institution's permanent collection for the modest sum of five hundred dollars, and declined. Whistler traded his portrait of Sir Henry Irving for a fur overcoat! The generous donor who gave it to the Metropolitan Museum of Art years ago, disassociated himself with the tidy sum of some thirty thousand dollars in order to make the welcome gift.

In the early sixties, a young French painter named Auguste Renoir was taken up by the dealer, Durand-Ruel, of Paris. M. Renoir is generally classed with the "Impressionists," and M. Durand-Ruel, with a large amount of foresight, was intelligent enough to discover great talent in the man. He bought of him when it required courage—the very strong courage of one's convictions. But the dealer could find no purchasers and he bethought himself of holding an auction sale to stimulate interest and start the ball rolling. A charming canvas was put up among the rest. It was called "La Source" (The Spring) and showed a young woman in diaphanous drapery, standing in a woodland. The best bid was twenty dollars. M. Durand-Ruel, not wishing to sacrifice the work, bid two dollars more and got it back! He also got good and mad, and said if anyone wanted it, it would cost big money. Well, he kept it thirty years, and in 1908 he sold it to a famous collector, the Prince of Wagram, for \$17,000. To-day the canvas would bring three times that sum. In the Metropolitan Museum of Art, by the same Renoir, there is a portrait group of Mme. Carpentier and her two children. In 1878 it was painted and for it the artist received the encouraging sum of sixty

FORESIGHT AND HINDSIGHT IN ART

The old homely saying that foresight is better than hindsight has never been better exemplified than in the incomprehensible blindness of critic, collector, public and even artist, in the passing by of masterpieces of painting, the lack of recognition of genius, permitting discouragement, suffering—even starvation, occasionally. Later generations have wondered at the short-sightedness and have then acclaimed the men their predecessors ignored; only themselves to ignore no less brilliant craftsmen living in their own time and in their very midst. So the merry farce goes on and it would almost seem that real art is a game where the practitioner must die to win.

It would be amusing were it not so pathetic, to see how much pains are taken to avoid securing good pictures at modest prices, a condition of affairs that has gone on time out of mind. Let me quote from the late Albert Wolff, the great French art critic, who tells of Jules Dupre, the artist, coming to see his friend Baroilhet, of the French opera. Dupre had under his arms a canvas, by the great Theodore Rousseau. At that time Rousseau was hopelessly hard up and could find scarcely anyone who would buy his pictures at any price. "See," said Dupre to the singer, "I am going to offer you a great bargain. I have a masterpiece to dispose of."

"A masterpiece?" repeated the famous singer, "and who executed the masterpiece?"

"Theodore Rousseau."

"Yes? he is a man of talent, but money is scarce."

"You can pay in two installments," insinuated Dupre; "two hundred and fifty francs a month." Thus it was, urged on by Dupre, that the tenor bought for five hundred francs—one hundred dollars—Rousseau's great painting "Le Givre" (Hoarfrost). To-day the work is worth at the smallest valuation, one hundred thousand francs. A dozen collectors all over the world would jump at the opportunity to possess it. During Baroilhet's

lifetime he re-sold the canvas for seventeen thousand francs. Rousseau's intimate friend, the painter Jean Francois Millet sent his now famous "Death and the Woodcutter" to the Salon of 1859, where it was promptly refused. In 1867, this same picture was one of a group of work Millet sent to the Exposition Universelle, and he was given a medal of the first class therefor. But for a long while, he could not sell the picture at any price, and when he did dispose of it, he obtained only a miserable sum. And Diaz, his fellow painter and good friend, used to stump about Paris on his wooden leg, with several paintings by Millet under his arm, begging people to give him twenty dollars apiece for them! Frequently he would arrive at Millet's home with the proceeds of a sale, to find there was literally no bread in the house for the family to eat. Millet's "Angelus" was bought, after some time, by the Belgian Minister M. Van Praet, for a few hundred francs. When it was last sold in Paris, a few years ago, a sum considerably over a quarter of a million francs changed hands!

Somewhere about 1855, a French painter named Gustave Courbet, a revolutionary sort of a chap, dissatisfied with the conventional manner of painting then in vogue in France, conceived a personal mode of expression in his work and, because he painted differently from the rest, was naturally in disfavor. He sent to the exhibition a picture which he called a "Funeral at Ornans." Ornans was the little village from whence he came, and this was just a pathetic scene, a lot of simple villagers about a grave, with the priest reading the service. It hangs in the Louvre now and is as innocuous a performance as you could well imagine. Yet people then thought it so advanced as to be absurd, so realistic as to be quite out of the pale. Courbet showed the canvas at a special exhibition and the critics called it "a masquerade funeral." They said there was more to laugh at than to weep over. They had cartoons about it in the comic journals and one man

dollars. When the Metropolitan bought it in 1907, at auction in Paris, M. Durand-Ruel acting as agent, paid for the work 92,000 francs!

It is not necessary, however, to go abroad for examples of a lack of foresight. We have our own group of able painters whom the public refused to recognize. There was Homer D. Martin, an artist of great charm, but he never had an appeal to the general public—or to the collector, for that matter—that is, not until his death. It was a serious struggle with Martin to meet current—and very modest—expenses. In an artists' benevolent society, to which he belonged, there used to be a sale each year, the painters contributing a picture, the sale of which paid the annual contribution of one hundred dollars. Of course all the canvasses brought more than that sum and the surplus was handed over to the painter. All, that is, save those by Martin. Rarely, if ever, did his reach the hundred dollar mark, and his brother artists used to get in on the bidding so that he would not have the embarrassment of seeing his picture go below that sum. Then, he, too, died. It was forthwith discovered that Homer Martin was a great artist. Prices advanced. Now the collector will jump at any old scrap that he did—good or bad—so long as it is a Martin. He has been paid the compliment of forgery, and they don't forge the work of those men who are not "best sellers."

For downright pathos, the story of Ralph Blakelock is one to draw tears. And he is not dead, though he is beyond the possibility of doing any more work, since years ago, his mind gave way and he is in an institution. Another personal workman he was, with a style completely his own. He struggled away. Only with the greatest difficulty did he manage to interest an occasional buyer, and then at prices less than the wages of a carpenter. He piled his work up in his studio, face to the wall. In vain he sought purchasers, debts piled up and discouragement ensued. High-spirited, sensitive, proud, he became morose. One day, when he was pressed to the limit by butcher, baker and candlestick-maker, he went to a collector's business office, with a canvas under his arm, and offered the work at an absurd price. The merchant made him an offer of about half what had been asked. Sorrowfully the artist turned away. Said the business man, "You'd better take this, for if you return, I will reduce the price again." Blakelock walked out of the office and made further efforts elsewhere without avail. Presently he came back and told the man he could have the picture at the price he had made, but true to his threat, the merchant named a smaller price. Again Blakelock left. Again the merchant insisted the price would be still further reduced. The next day saw Blakelock back, ready to accept the second price, but again the implacable merchant further reduced the figure.

Crazed with financial anxieties, Blakelock finally accepted the last offer and the man of commerce handed him a couple of bank notes. Blakelock left his canvas and the

office. Presently a policeman came into the quarters of the business man with the bargain instinct. "There's a crazy man outside, sir," he said, "and he's standing on the sidewalk tearing money into bits." It was, alas, too true. Poor Blakelock had come to the breaking point. For him an asylum, and oblivion during the rest of his mortal life and—there he is, the world forgetting happily, if not by the world forgot. Only a year or so ago, in open auction, Senator Clark paid \$13,900 for one of Blakelock's canvases!

Two centuries and a quarter ago the studio of poor Rembrandt was sold out for debt. The man had gone out of fashion. He was deserted for other, less able, but more popular artists.—Arthur Hoeber, in "Arts and Decoration."

THE ARCHITECTS OF AMERICA WAR RELIEF FUND.

The debt which architecture owes to the countries of Europe is neither measurable in words nor payable in money, but in view of the appalling conditions brought about by the present war—the terrible sufferings—the threatened destruction of that which can never be replaced—it is eminently fitting that the architects of America should unite and in the name of their profession and their art, do their part toward affording some measure of relief to those upon whom this horrible catastrophe has fallen.

Help extended at such a moment is a solemn obligation upon those who are spared the indescribable anguish and horror which war heaps upon the men, women and children who lie in its path.

Money is needed—in vast sums—and it is profoundly hoped that every architect will contribute in the largest possible measure. It is further sincerely hoped that every architect will give something—for the committee wish that this fund may not only be large but that it may be truly representative of the profession which, more than all others, owes its inspiration to the forebears of these people who are to-day bearing the almost intolerable burden of the most frightful war the world has ever seen.

Send your subscription now—"He gives twice who gives quickly." Subscribers may designate the country in which they wish their contribution expended. C. H. Whitaker, treasurer of the fund, the Octagon, Washington, D. C.

TURNING BRICK PAVEMENTS.

Brick pavements which had worn to an undesirable extent in Savannah, Ga., have been reconstructed by turning the brick upside down, with very successful results. Last year one stretch of 10,400 square yards was turned in this way at a cost of \$3,490.39, or 33.5 cents per square yard, of which 25 cents was for labor and 8½ cents for material.

COST OF DRIVING PILES WITH A GASOLINE HOIST.

The cost of driving 1,300 piles with a 6½ H. P. gasoline engine operating a 1,650-lb.

drop hammer is reported in the "Engineering Record" to be 18.2 cents per lineal foot of pile in place, including the cost of the pile. The costs are itemized as follows: Cost of piles delivered, \$1,432.80; labor, \$1,653.93; engine and hoisting outfit, \$340; scow, \$154.45. The piles were driven from a scow on which the engine was mounted, and were driven to an average depth of 13.15 feet. The cost of the piles alone was 7.5 cents per lineal foot.

THE BUNGALOW.

The Charlemagne McFaddens dwelt in an imposing pile
Of brick and mortar, fashioned in the early mission style.
And in the house were mission chairs by which they set great store,
Whose mission 'twas to keep them all from sitting on the floor.
They also owned some mission hens that furnished them with eggs,
And eke a little mission dog with quaintly Gothic legs.
So in their early mission house they dwelt contented—very,
Till Uncle John got jaundice and became a missionary.
Then in despair they tore their hair and turned to higher things,
And to their early mission house they added mission wings.
Alas for wings and higher things Alas. Alackaday!
Equipped with wings, their mission house, it promptly flew away!
Now Ma McFadden might have wept, and said a lot of things;
But all she said was, "Charlemagne, you should have clipped its wings."
And Charlemagne replied, "My dear, I bungled as you know,
By building high, so next time I will build a bungalow."

—"Cosmopolitan."

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

The man "who doesn't believe in advertising" can't understand why the other fellow gets the business.

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PUBLISHED WEEKLY

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Irving Dillon.....Editor

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Editorial Comment

That the scarcity of mortgage money is a condition general rather than local is shown by the official returns in Greater New York. For example, since January 1, in Manhattan, 3,922 mortgages for \$117,906,860 have been filed, as against 4,774, for \$162,405,454 during the corresponding twelve months of 1913. Mortgage figures for the Bronx show that 3,604 for \$30,397,622 have been filed this year, as against 5,464 for \$38,404,540 recorded in 1913. In Brooklyn, since the 1st of January have been filed 16,095 for \$66,192,277, as against 16,663 for \$66,204,687 during 1913. The figures here in Philadelphia show an amazing decrease. The total amount of money invested in mortgages during the present year, according to the official record compiled by Recorder of Deeds Ernest L. Tustin, sums up less than \$90,000,000, as compared with \$178,000,000 during the corresponding twelve months of 1913, a decrease from 1913 of about \$100,000,000.

That this situation, paralyzing in its effect upon the building trades, has begun to ease perceptibly is shown by recent New York advices. Five per cent. money is reported easy now in New York, and the prediction is made by mortgage brokers and banking officials that five per cent. loans will be looking for takers by January 15th. Philadelphia, always conservative, will probably be among the last to respond to this buoyant tendency on the part of the market. Although signs are not lacking that here, as in New York, the trend is toward better things.

Naturally, with mortgage money scarce and high, there has been a notable falling off in the volume of building activity since July. Particularly is this true of operative building, always a considerable factor in the grand total of building expenditures for the year. It is significant, in a review of all the circumstances, that in the comparatively few cases in which the operative element has seen fit to defy the prevailing jinx, the ventures have been uniformly and strikingly successful. All of which goes to show, in the opinion of seasoned observers, that President Wilson is largely correct in his assumption that much of the depression existing is psychological rather than actual and traceable to the painful timidity of capital rather than to any real cause for alarm in the general aspect of affairs.

That the hounding of big business has had more to do with unsettling business conditions than either the tariff tinkering at Washington or the war abroad is freely remarked by men whose experience should qualify them to judge. Now that this hounding has apparently run its course, let us try to get back to normal conditions. There is a contagion about the optimistic point of view that should help wonderfully in the months just ahead. Let us, then, try to cultivate this optimistic spirit. Let us sweep out the glooms, the

prophets of darkness and disaster and immolate the jinx upon the altar of general prosperity. Let us pull together to make 1915 a happy new year in fact as well as in name. Just because a few woolly statesmen at Washington denounce big business or a group of nations in Europe set out to try to exterminate each other provides no good reason why the wheels of progress should sympathetically cease to revolve. Here's to 1915! May she bring prosperity and peace and happiness to all, including the demagogues, the mad monarchs, the tariff tinkers, big business, little business and mankind in general.

Our wish—A Happy New Year.

A brave, a bold, a true year,

A year of health,

A year of wealth—

A dream-and-dare-and-do year!

* * *

As a result of the campaign waged by New York real estate men and property owners to remedy the evils underlying an irritating duplication of inspections, a whole group of bureaus, each with its share of jurisdiction over buildings, is to be consolidated into one huge department. This department, at the head of which is to be the Superintendent of Buildings, is to take over the functions of fire, police, health, tenement house, water supply, public works and licenses in so far as these functions relate to buildings or to conditions therein.

In other words, these Superintendents become in their respective boroughs the absolute authority over a decidedly large part of the city's activities. In combining departments and bureaus for the sake of economy and facility in business more powerful officials are set up than any now in office.

It is the plan of the conference committee of real estate and allied organizations which are working for a change in the present system of duplicate inspection to retain Superintendents of Buildings in the various boroughs just as they are now, appointees of the Borough Presidents. To them would be transferred the duties of the Bureau of Fire Prevention of the Fire Department, except in relation to vessels, portable fire appliances, the investigation of fires and the regulation and issuing of permits for the storage, sale, transportation or use of combustibles, chemicals and explosives.

From other departments functions would be transferred to the Bureaus of Buildings; jurisdiction of the Tenement House Department over the natural lighting, ventilation, construction, alteration and structural changes in buildings; of the Police Department over boilers; of the Health Department relating to structural changes in bakeries, confectioneries and food product manufactories; of the Department of Water Supply, Gas and Electricity relating to the inspection of electrical wiring and equipment in buildings and elec-

trical signs, but not including the installation, inspection and testings of gas and electrical meters; of the Department of Public Works over the construction of sidewalks and sidewalk elevators and the granting of vault and sidewalk permits; of the Department of Licenses over the inspection of theatres, dance halls and places of amusement in reference to building construction, alterations, structural changes and exits; of the State Department of Labor over exits, fire escapes, elevators, automatic sprinklers and the construction, alteration and structural changes in all buildings in New York City to which the labor law applies.

It is proposed to organize a Bureau of Standards composed of the Superintendents of Buildings of each borough, with power to make and repeal building laws. The only check placed on the Superintendents is a suggested Board of Examiners with power to hear appeals from orders issued by the different bureaus of buildings. It also is suggested that employees of one bureau be transferable to another as occasion requires.

This is the substance of a report framed and indorsed by real estate interests after several conferences in which City Chamberlain Bruere and representatives of the Borough Presidents participated. George W. Olvany, counsel of the conference committee, drew up the report, which is likely to be the basis for a bill to the Legislature to legalize the changes suggested.

* * *

From January 1 to December 23, inclusive, plans were filed in the Manhattan Bureau of Buildings for 408 new buildings costing an aggregate of \$45,433,665. The report as compiled by James W. Spencer, statistician of the bureau, shows plans were filed for seven dwelling houses costing over \$50,000 each, making a total of \$1,350,000; seven between \$20,000 and \$50,000, aggregating \$260,000, and seven under \$20,000, aggregating \$72,000, making a total of twenty-one dwellings costing \$1,682,000; 133 tenement houses costing \$18,916,000; nine hotels costing \$975,000; thirty-four store and loft buildings, costing over \$30,000 each, representing an aggregate of \$8,828,000; eighteen costing between \$15,000 and \$30,000, aggregating \$402,000, and seven costing under \$15,000 each, aggregating a total of \$54,000, thus showing fifty-nine of this class, making a total of \$9,284,000; thirteen office buildings, costing a total of \$7,155,000; thirty-one factories and workshops, costing \$2,618,450; six school houses costing \$298,600; six churches, costing \$400,000; six municipal buildings, costing \$572,000; thirty places of amusement, costing \$1,739,000; thirty-six stables and garages, costing \$790,050; three hospitals, costing \$750,000, and thirty-five other structures costing a total of \$73,565.

During this period plans were filed for alterations to 4,655 buildings at a cost of \$10,725,576. The class of buildings for which the greatest number of alterations were filed were tenement houses, plans being filed for 1,257, representing a total expenditure of \$1,339,

668. Store and loft buildings came second, although the total cost was greater, being \$3,545,116, and office building alterations were fourth, plans being filed for changes to 382, at a cost of \$1,576,798, while dwelling houses came third, plans being filed for changes to 707, costing a total of \$1,164,606.

* * *

Statistician Gamble, of Philadelphia's Bureau of Building Inspection, will have ready some time this week the figures showing the expenditures for various classes of buildings in Philadelphia during the twelve months now reaching their close. These figures will be a feature of the anniversary number of the "Guide," out January 13th, and will be made the subject of an analytical review in that number.

THE INNOCENCE OF "BAD" PLUMBING.

What we used to call "bad" plumbing is now, it appears, not nearly so bad as it used to be painted, being objectionable only so far as it fails to fulfil its primary office of removing waste in an inoffensive manner. The idea that it can cause disease by allowing noxious gas to escape into houses is now scouted by sanitarians. The public, however, while slow to learn, is also slow to forget. It took a long time for hygienists to saturate us with the fear of "sewer-gas," and it will apparently take a still longer time to dissipate that fear. "The Journal of the American Medical Association" (Chicago) laments that it is still enshrined in the laws of several States, and that the plumbers themselves appear to encourage it. We read:

"It is a little disconcerting to find that typhoid fever can still be complacently attributed to bad plumbing. When we read that 'insufficient laws regulating plumbing and sanitation in Virginia, Maryland and the District of Columbia are largely responsible for the high typhoid rate and the prevalence of other diseases in the two States and the District,' and again that 'much of the fever and other forms of disease with which the health authorities are constantly wrestling is caused by noxious gases and vapors emanating from neglected or defective pipes in the homes of the people,' we are inclined to rub our eyes and ask ourselves if the education of the community is really proceeding at the pace we sometimes like to believe. The assertions quoted above, however, were reported as made at the Association of Plumbers, Gas-fitters and Steam-fitters which recently met in Richmond, Va., and not at a convention of health officers or physicians.

"It is hardly necessary to point out that typhoid fever—or any other fever—is not caused by bad smells, and that the small quantity of the gases of decomposition found in well-ventilated sewers has never been proved to exert any injurious effect whatever on health. . . . Disease germs are not found in sewer air; indeed, it is difficult on physical grounds to see how they could get there. The 'noxious gases and vapors,' so dear to the plumber's imagination, are conspicuous by

their absence in all perfectly constructed sewer systems, as every visitor to the great sewers of Paris and other modern cities well knows. 'Defective plumbing' has about as much relation to public health as any other mechanical defect in house construction."

It is further charged by "The Journal" that city ordinances regarding plumbing are drawn with no uniformity in America, and that what is required in one city may be prohibited in another. High authorities, we are told, maintain that the system of modern house plumbing which is made legally obligatory on house builders in many places entails a large, needless, and altogether unjustifiable expense. This barrier of cost prevents progress toward better sanitation, we are told, and "is a harm, not a help, to public health." Therefore,

"If the plumbing interests really wish to aid the hygienic welfare of the community, they can best do this, not by insisting on still more complicated devices and 'inspections,' but by simplifying and cheapening the cost of installing and maintaining the pipes and fixtures essential for carrying off the house wastes in a speedy and inoffensive manner. Finally, let us ask this question: To what extent do the plumbing ordinances in our American cities represent the prevailing opinion of public health experts and trained health officials, and to what extent do they represent the efforts of commercially interested individuals or organizations to entrench themselves behind the active if not always well-informed desire of the people to safeguard the public health?"

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scripper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

FASTER SYSTEM

MAXIMUM AT MINIMUM
EFFICIENCY AT COST

ROOFING AND WATER PROOFING

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EVERYBODY WANTS TO USE ELECTRICITY

If Architects and Builders would keep this fact in mind, they would never design or erect a building of any description which was not wired and equipped for Electric Service. Electric Service means not merely light—it makes possible as well the use of all manner of labor-saving devices, whether the building be a cottage, mansion, office building or factory.



"JUST HARD WORK."

Work seems to most of us just common drudgery, the daily round, the continual grind, and we would often gladly escape it. But there is a romance about work if we can see it. It is the great law of our being, the living principle that carries men forward. All that is really great in men comes through work, and civilization is its product. Our homes, schools, churches, factories have come to us through the open door of toil.

That which we have accounted the work of genius has really been the fruit of labor.

Michael Angelo, we are told, slept with his clothes on at eighty years of age that he might spring to his task at the break of day. Edmund Burke was one of the most prodigious workers that ever lived. Milton arose at 4.30 in summer and at 5.30 in winter throughout all his active life, to study and write. Timothy Dwight, once president of Yale, worked fourteen hours a day for over fifty years. The labors of some of the world's greatest men have been such as you could hardly have expected from a human body or a human mind. Bancroft spent twenty-six years on his "History of the United States," Webster thirty-six years on his dictionary, while Gibbon plodded for twenty years on "The Decline and Fall of the Roman Empire." Field spent thirteen years and all his fortune, crossing the Atlantic fifty times, before the first cable was laid. Stephenson worked fifteen years on the first locomotive.

Such is the romance of work—just hard work. The world still wants men who will work—noble, unselfish men, who are not afraid to work.—Exchange.

Trade News and Gossip

Cullings from the Week's News with a Special Interest for Men Engaged in the Structural Industries—What is Happening in Trade and Architectural Circles.

**The versatile secretary of the Northern Hemlock and Hardwood Manufacturing Association has just completed a new birch book for the instruction and use of carpenters, builders and architects. It is mostly a picture book; contains many large half-tone plates of beautiful residence interiors where birch has been used. In addition to the many large half-tone plate illustrations, there are some practical paragraphs about the use of birch for interior finish, including standing trim, panels, doors, built-in work, flooring, furniture, etc. Proper methods of staining and finishing birch are described. In all, it is a book of forty pages, size 9½ by 12 inches. Each page is surrounded by a broad border which reproduces exactly the natural birch grain. This is printed in a soft grayish green, which sets off the illustrations wonderfully well. The book is being distributed free of charge by the Rotary Birch Club, Wausau, Wis., through the secretary of the Northern Hemlock and Hardwood Manufacturing Association, Mr. R. S. Kellogg.

**Neponset Paroid roofing is now being manufactured with a new improved gray surfacing. This has been improved in two ways—first, in appearance, and secondly, in permanence. The old style surfacing of Paroid was considered to be the most permanent finish that could be applied; but it is believed that this new finish will outlast the old gray finish by years. The United States Government has just purchased 172,000 square feet of Neponset Paroid roofing, making a total of over 1,500,000 square feet which it has used at Panama alone. These orders are only some of the many others which the Government has placed for this roofing.

**The last few years has made a marked change in the slate business, the quarries in general in the Slatington, Pa., region are quarrying better slate, owing to the depths of their quarries, and better equipments to finish the slate after they are quarried. Among the quarries that have kept pace with the times are the Blue Valley Slate Manufacturing Co., Ltd., Slatington, Pa., one of the largest and oldest quarries in the region. They have lately erected two new factories, one for roofing slate and the other for structural slate, electrical slate and blackboards. Both of these factories are equipped with up-to-date machinery, run by individual electric motors, which gives them quite an advantage over the ordinary equipment, to produce better slate of every kind than heretofore and at short notice.

**The next convention of the National Brick Manufacturers' Association will be held in Detroit in February. It is composed of

practically all brick manufacturers in the United States and men who head the brick and clay working machinery manufacturing plants.

**This last year a new inside wall finish was introduced and has become an immense success—Arlington Richtone flat enamel. That is a flat enamel with a base of French zinc. It is not one of the customary flatted out lead and oil paints. The special excellence claimed for "Richtone" is that it is not only waterproof, but germ-proof, and will not soften up and become absorbent in hot weather, thus making it particularly useful for the interior finishing of hospitals, schools and public buildings. It contains absolutely no poisonous ingredients and so can be used where ordinary paints are prohibited. The Arlington Manufacturing Company, Technical Paint Makers, Canton, O., will furnish complete information on "Richtone" upon request.

**Why not lay the porch ceiling joist the same way as the flooring joist on all porches not exceeding 20 feet in length? On longer porches the joist may be stripped with 1 by 3. Then order ceiling of exactly the right length. You will find it will go together better, will lie straighter, that ceiling the porch will be a one-man job, that you will save money and get better results all around. Order perfectly milled Arkansas soft pine stock, which shows good figure, and instead of painting or oiling the ceiling give it a coat of forest green or russet brown stain and cover with a suitable varnish. The idea of preserving for the owner the beautiful figure of Arkansas soft pine is one that should appeal to every contractor. If paints are used a light color, white or pearl gray, is recommended. This is one of the practical features of building discussed in a pamphlet now ready for distribution, entitled "Uses of Arkansas Soft Pine for Building." Copies will be mailed to all who ask for them. Address the Arkansas Soft Pine Bureau, 1738 Transportation Building, Chicago, Ill.

Don't expect outsiders to give you a big rating on a one-inch space.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

HINTS ON LAYING HARDWOOD FLOORING

Two Classes of Hardwood Floor Layers—Not Necessary That Every One Should Be an Expert

The hardwood floor as a rule is laid by a professional commonly known as a "floor layer," who specializes in the laying of hardwood floors, such as oak, maple and beech flooring. These floor layers may be divided into two classes—the good and the bad. The expert floor layer obtains his reputation by the high class and perfect work that he turns out. It is practically his only asset in the game. Many large floor laying concerns reach their prosperous condition chiefly through conscientious workmanship in their earlier career. The floor layer who is careless or ignorant will never succeed.

The Man Who Understands His Business.

The floor layer who makes good is invariably the one who knows the proper method of laying floors. A good floor layer does not rely upon the contractor for all his business, as in fact the greater share of his work is obtained through satisfied owners.

One expert floor layer I know, makes a specialty of canvassing among very fine old homes that were erected during the days when only soft pine floors were to be had. Usually $\frac{3}{8}$ inch thick oak flooring is used for old homes, laid directly over the old pine floors. This expert in a very few minutes, after ascertaining the square feet of space to be recovered, will tell the cost, including the finishing.

Some Cases of Improper Work.

While on this subject, it may be well to mention some actual cases that the writer was called upon to investigate, which are quite pertinent. In Detroit about a year ago, 2,450 feet of oak flooring was laid parallel with the sub-floor by an incompetent man. The sub-floor in the course of ten days began to contract, with the result that it made crevices in the floor above every six inches, which was the exact width of the sub-floor material. The owner complained to the dealer, and I was called upon to look into the case. A glance at the floor immediately told me that the flooring was laid parallel to the sub-floor, which I proved by going into the cellar and noting the direction the sub-flooring ran. The floor layer was called upon to explain why he laid the oak flooring over the sub-floor in this fashion. He had no good excuse to offer other than he thought it was the proper way. It brought out the fact that he was a novice at the work. Every bit of this oak flooring had to be taken up and replaced by new material which was laid at right angles to the sub-floor.

Another case in Kansas City showed 2,000 feet of oak flooring laid in a very fine residence immediately after being delivered. At the retail yard it was given improper hous-

ing, and it absorbed considerable moisture, resulting in many pieces swelling to the extent of 1-16 inch from the original manufacture. The period was during the winter season. The result was that unsightly crevices appeared after the house was heated. The architect in this case placed the blame on the retailer and the floor layer. He contended that during the winter season hardwood flooring, especially oak, should be kept in a very dry and warm place for at least ten days or two weeks prior to the time of laying. This floor also had to be ripped up and replaced by new stock at a big expense, which was borne by the dealer and the floor layer.

At Ithaca, N. Y., a few years ago, an 8-in. brick wall was bulged out to the extent of 3 inches, and after investigation it was found it was due to the flooring, which was oak, being badly abused by too much water being left on while scrubbing the floor, which caused the swelling. Usually in a case of this kind the floor will bulge in the middle of the room, but it was found in this particular case that nails were generously used through to the oak sub-floor.

In another case in St. Louis, where crevices showed throughout the floor the sub-floor was green stock and the carpenters left no space for contraction. A few months after the flooring was laid the boards contracted from $\frac{1}{4}$ inch to $\frac{3}{8}$ inch, and as the flooring was laid diagonally, it made bad crevices.

Floor Layer Must Use Good Judgment.

A first-class hardwood flooring job does not only mean the proper laying process, the right kind of nails, seraping, etc., but it means that the floor layer should exercise some judgment in keeping discolored pieces and other bad appearing pieces from prominent places in the room. Very often when entering a room you see a bad looking piece that is not covered by the rug, which should have been placed in some obscure corner or closet. The most successful floor layers employ an assistant to pick out bad-looking strips and see that they are not laid in prominent places. A floor layer should have a thorough knowledge of the different kinds of hardwood flooring before entering into this field.

In oak flooring there are five grades—clear, sap clear, select, No. 1 common and factory. Each grade has its uses.

It is not necessary that every floor layer be an expert. Any ordinary carpenter with good common sense, after reading booklets as published by the manufacturers of hardwood flooring, can enter upon this line of work and make a success of it.—W. L. Claffey, in "Building Age."

BUSINESS PATRIOTISM.

A sensible and patriotic message is being sent out by the Simonds Manufacturing Company, and we are glad to pass it on to our readers. It is truly encouraging and will gain the ready assent of all thoughtful men at this time.

"We believe in our country. We have faith that the United States of America will continue to be the most prosperous nation in the world. Although panicky people pinch tight the mighty dollar, fearing disaster for this country on account of the European war, our crops are the most bountiful in years. These crops must be harvested. The mills will grind the wheat and corn; the railroads will transport the flour and meal; starving nations will find some way of getting these and the wealth received in return will be spent at home.

"As 5 per cent. of our country's products are all that are exported, we are likely to suffer a great deal more from the abnormal tightening up of the purse strings of our merchants, our manufacturers, and our consumers, than from loss of European business.

"Let us all have faith in our country. Let us go on in a normal way. We are confident of peace in our States. We are practically sure of a larger market from outside than we have ever had before. If we can supply the wants of South America at this crisis in European conditions then we have built a new outlet for our products. A market hitherto European and one estimated at one billion dollars a year in volume will be ours. It is an opportune moment for the manufacturers of this country to take advantage of this market and to send their real men to make business connections, establish agencies and acquaint their houses with the wants of South Americans. Their orders should be filled understandingly in accordance with South American ideas, with the intention of pleasing the trade heretofore going to European nations.

"We believe that now is the time for patriotism in its broadest sense—that is, to take advantage of present conditions by pushing ahead everything American, demanding American made goods for ourselves and offering them to meet the requirements of our South American friends in such a way as to supply their needs from their own hemisphere.

"Let us all work together in a natural, normal, and sensible way. Then we have faith to believe that in six months from now the wheels of industry will all be moving and this country will be on the eve of a period of prosperity the like of which few Americans have ever seen."

Are you aware, Mr. Advertiser, that this paper circulates in 5,000 offices, reaches every architect of any prominence in the East and the Secretary of every architectural club and chapter in the country?

THE BUILDERS' GUIDE,
Perry Building, Philadelphia.

FIREPLACE HEATER DESIGN.

The American Gas Institute and the National Commercial Gas Association have authorized this joint committee to offer a prize of \$150.00 for the best design of a fireplace heater, burning gas.

The committee realizes that the class of architectural draftsmen which is likely to enter into this competition has only a slight knowledge of the principles of gas combustion, and that the inherent difficulty in this problem is to obtain a design, the appearance of which, when unlighted and when lighted, is satisfactory, and which will at the same time permit of the proper combustion of the gas, and be efficient in the radiation of heat. It may be said, however, that gas burners may be made in almost any shape, and that it is, generally speaking, possible to reconcile an adequate handling of the gas with a wide variety of designs of heaters. It is therefore suggested that the first thought should be given to the production of a design of heater which is artistically appropriate in the fireplace when the heater is unlighted, it being assumed that the technical requirements may be afterwards met by the engineers of the committee.

The competition will close on March 1st, 1915, at which time the designs must be in the hands of Chairman of the Joint Committee, Mr. William J. Serrill, 1401 Arch street, Philadelphia, Pa.

The committee reserves the right to decline to make an award if, in the opinion of the jury, none of the designs submitted meets the requirements of the competition.

Further information on this competition may be obtained by communicating with Mr. William J. Serrill, 1401 Arch street, Philadelphia.

PERFECTION NOT REQUIRED.

In a recently quoted decision the Kentucky Court of Appeals—Kortz vs. Kimberlin, 165 Southwestern Reporter, 654—holds that in preparing building plans no duty is imposed on an architect to prepare perfect plans, but that the exercise of a reasonable degree of skill in their preparation is sufficient. The court said in part:

"While it is true that a public profession of an art is a representation or undertaking to all the world that the professor possesses the requisite ability and skill, and it therefore follows that an architect is presumed to possess the skill and ability necessary to the practice of his profession, and is liable for defective plans, * * * yet he does not undertake that his plans will be absolutely perfect, and is liable only for a failure to exercise reasonable skill in the preparation of the plans. Furthermore, if he be employed to superintend the building, he is not liable at all hazards for every defect in its construction, but is only required to use reasonable care and diligence in seeing that the work is properly done. The mere fact, therefore, that some of the material is defective, or that some of the construction work is not done in

a workmanlike manner, is not sufficient to establish as a matter of law that he has not fully performed his contract. Under such circumstances, the question whether or not he used reasonable care and diligence in superintending the work is a question for the jury. * * * Take, for instance, the stucco work, which is one of the largest items of damage claimed. The defendants testify that they, who had been occupying the house could not discover its defective condition until after the time the amended answer was filed. It had only recently begun to peel off. While it is doubtless true that an architect has better means of observation and detection, yet it cannot be said that the evidence conclusively shows that plaintiff, by the exercise of reasonable care and diligence, could have discovered the defective condition of the stucco before it began to fall off. Notwithstanding the proof as to its condition, it was for the jury to say, under all the circumstances, whether or not plaintiff failed to exercise reasonable care and diligence."

AMERICAN ARCHITECTS.

Annual Meeting of the Institute at Washington—The Octagon House.

Urgent recommendations for the complete restoration and preservation of Octagon House were made by the house committee at the opening session of the forty-eighth annual convention of the American Institute of Architects, held in the ballroom of the Shoreham Hotel. In its report the committee stated that the property is in a poor condition.

The report of the committee on the nomination of officers showed the choice of the following, who were subsequently voted on: R. Clipston Sturgis, Boston, president (re-elected); Thomas R. Kimball, Omaha, first vice-president (re-elected); D. Knickerbacker Boyd, Philadelphia, second vice-president; Burt L. Fenner, New York, secretary, and J. L. Mauran, St. Louis, treasurer (re-elected).

The gold medal of the institute was presented to Jean Louis Pascal, at the annual banquet, at the Pan-American Union Building. The French ambassador, Jules J. Jusserand, received the medal, in the absence of Mr. Pascal. Among those who made addresses were Secretary Bryan, Charles S. Hamlin, of the Reserve Board, and Charles A. Prouty.

BOOKS RECEIVED.

Our Philadelphia. Described by Elizabeth Robins Pennell. Illustrated with one hundred and five lithographs by Joseph Pennell. J. B. Lippincott Company, publishers.

The Pennells' "Our Philadelphia" is an altogether charming sample of book-making. It is a big, handsome volume of nearly 600 pages, sumptuously printed, lavishly illustrated, dressed in good, clear type with broad, creamy margins to every page and bound in a red cloth that lends it the air of a holiday book. Which last, by the way, it is, and a

right royal kind of a holiday book, too, for any man or woman, in the fifties, say, who can recall the Philadelphia of which Mrs. Pennell writes, and writes with such wonderful fluency, grace and tenderness of recollection. I cannot recall when I have been so carried away with a volume of the kind. It was an experience almost Alladin-like. Many of the localities mentioned I had not seen in years, but somewhere out of the storehouse of the past, summoned by the fairy pen of this most agreeable of chroniclers, the old homes, the old streets, the old haunts of fashion and of elegance,—many of them now centers of the city's slums,—seemed to rehabilitate themselves, like Cinderella in the good old tale, and to stand forth in all the dignity and simplicity that was theirs in better days. This is no novel, this "Our Philadelphia." It is simply a transcript of the recollections of a Philadelphia gentlewoman covering her girlhood, her young womanhood and her final return to the home city after years of wandering abroad. And yet, so marvelously is it written, so vividly does she visualize scenes and incidents and personages and localities identified with the Philadelphia that used to be that it gripped me like a novel, held me spellbound to the final chapter and fascinated me as no other work of its kind has been able to do in these many years. As for the illustrations, what remains to be said, they are from the crayon of that most accomplished of living etchers, Mr. Joseph Pennell. No greater tribute may be paid to his skill than this, that he is able, while picturing them with a lifelike fidelity, to make the familiar things seem unfamiliar. That brilliant sketchy facility sent me gazing anew at many an old building to discover beauties all unsuspected until Pennell's pencil had indicated them to me. His drawings are inimitable. Taken altogether, "Our Philadelphia" is a beautiful tribute to the quieter, staidier, more tranquil Philadelphia of other years. That it should find a place in the library of every Philadelphian who knows and loves his native city, it should hardly be necessary to say in so many words. There is in its pages the leafy charm, the semi-Quakerish, semi-Colonial elegance, the unaffected refinement and homely grace of Philadelphia as it was in the era antedating immigration piers, housing commissions and lowered standards of living. A most remarkable book—a book no Philadelphian worthy the name can afford to leave unread.

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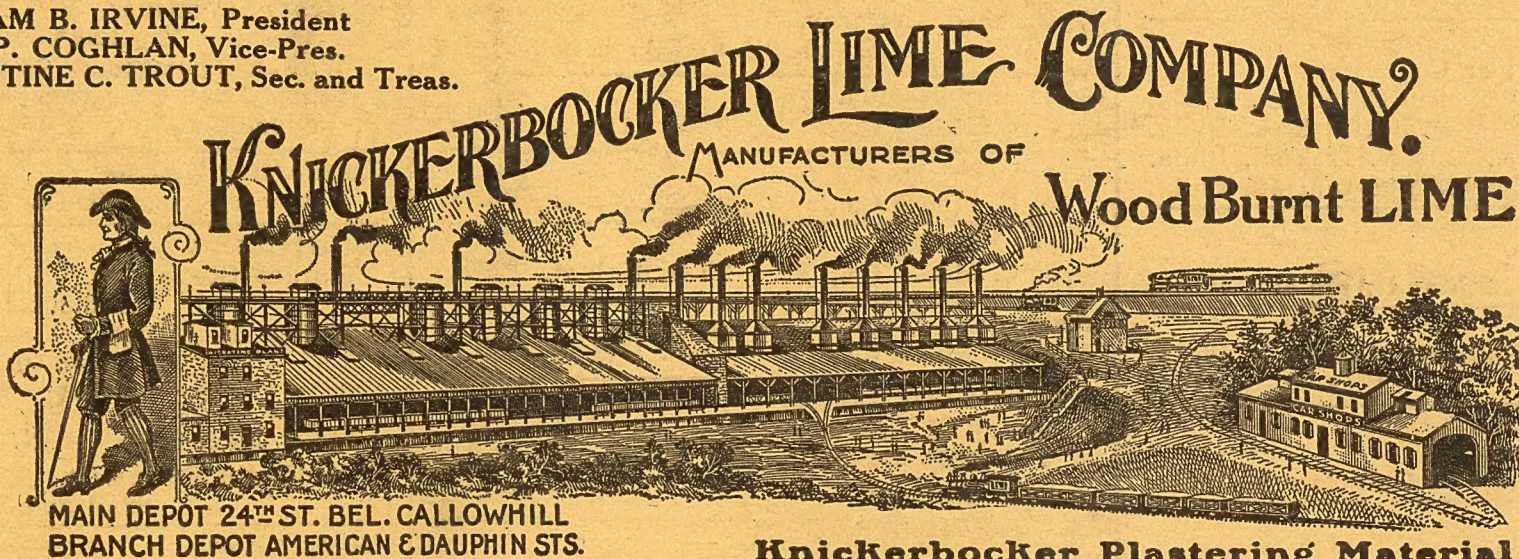
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